MIC 87-A-8

1987 Census of Mineral Industries

MIC87-A-8

GEOGRAPHIC AREA SERIES

Mountain States

Arizona, Colorado, Idaho, Montana,
Nevada, New Mexico, Utah, Wyoming

U.S. Department of Commerce
BUREAU OF THE CENSUS

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If you have any questions concerning the statistics in this report, call (301) 763-5888.

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Issued November 1990

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Publication Program ..... Inside back cover

INTRODUCTION

URPOSE AND USES OF THE ECONOMIC ENSUSES

The economic censuses are the major source of facts bout the structure and functioning of the Nation's econmy. They provide essential information for government, usiness, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

UTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, d 224) directs the Census Bureau to take the economic nsuses every 5 years, covering years ending in 2 and 7. e 1987 Economic Censuses consist of the

Census of Retail Trade
Census of Wholesale Trade
Census of Service Industries
Census of Transportation
Census of Manufactures
Census of Mineral Industries
Census of Construction Industries

ERAL INDUSTRIES–GEOGRAPHIC AREA SERIES

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial

activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures, Current Industrial Reports,* and the *Quarterly Financial Report.* Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics.* More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses.* Contact Customer Services for information on availability.

CENSUS OF MINERAL INDUSTRIES

General

This report, from the 1987 Census of Mineral Industries, is one of a series of nine geographic division reports, each of which provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1987 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*[1]. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

[1]**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1987 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1987 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 34,000 mining establishments, approximately 12,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment nonmail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1987 census, as in the 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than $500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for mineral industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to formulation of 31 mining industries for 1987, and each was assigned a four-digit code. This represents a reduction of four-digit industries from 42 in 1972/77. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Mineral Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, DC 20233.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

-	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half the unit shown.
do	Ditto.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "l tons."

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral Industries–Five-year industry and product statistics	Minerals Branch Industry Division Bureau of the Census	(301) 763-5938
Mineral Industries–Annual product statistics (domestic and international) except fuels	Bureau of Mines Metals Nonmetallic minerals International	 (202) 634-1055 (202) 634-1202 (202) 632-8970
Mineral Industries– Coal and oil and gas production	National Energy Information Center (NEIC) staff Department of Energy	(202) 586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	(301) 763-4100
Import/Export publications	Foreign Trade Division	(301) 763-5140

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendix]

Item	State historical	State by industry	State by industry group and type of operation	State summary	State by county and industry group	State by county and establishment size
Establishments:						
Total number	1	2a, 2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a, 2b		4	5	
Wages	1	2a, 2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a, 2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

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Arizona

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 244 establishments classified in mineral industries in Arizona was $1.8 billion in 1987, or 1 percent of the Nation's total. This compares to $1.4 billion in 1982. Value added by mining amounted to $1.1 billion in 1987, and payroll in mining amounted to $372.3 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into consi eration the inflation that has occurred.

Mineral industries employment in Arizona was 12 thousand in 1987, or 2 percent of the Nation's total. This a decrease of 23 percent from 1982. The metal minin industry led all other mineral industries in the State accounting for approximately 81 percent of the State' mineral industries employment.

State Map

ARIZONA - Metropolitan Statistical Areas, Counties, and Selected Places

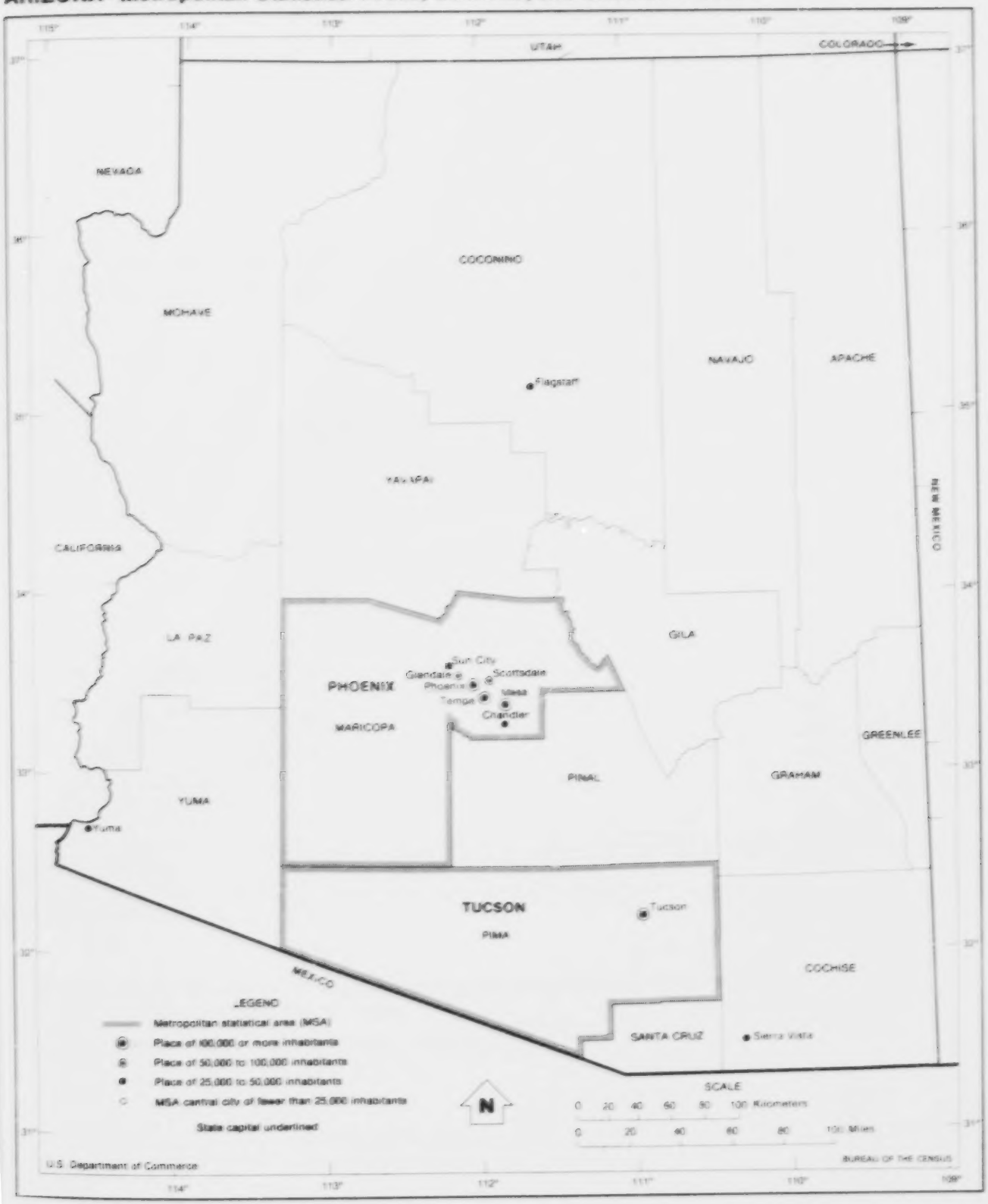

Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1987	244	53	12.8	372.3	9.9	18.7	266.0	1 142.8	840.9	1 751.7	232.0
1982	1277	(NA)	16.6	426.5	12.7	23.4	326.4	748.4	771.3	1 352.5	167.2
1977	229	50	21.0	309.0	15.8	29.8	240.2	750.9	650.7	1 259.3	142.3
1972	161	48	21.1	226.7	16.5	34.2	168.5	625.4	392.7	851.1	166.9

[1]Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1987											1982	
			Establishments during year		All employees		Production, development, and exploration workers							
		E[1]	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees[2] (1,000)	Value added by mining (million dollars)
	All industries	–	**244**	**53**	**12.8**	**372.3**	**9.9**	**18.7**	**266.0**	**1 142.8**	**840.9**	**1 751.7**	**232.0**	**16.6**	**748.4**
10	**Metal mining**	–	**94**	**32**	**10.4**	**301.4**	**8.2**	**15.6**	**219.7**	**873.3**	**750.1**	**1 410.6**	**212.8**	**14.1**	**534.5**
102	Copper ores	–	28	18	9.6	278.6	7.6	14.3	203.2	841.6	712.2	1 359.8	194.0	13.4	513.4
1021	Copper ores	–	28	18	9.6	278.6	7.6	14.3	203.2	841.6	712.2	1 359.8	194.0	13.4	513.4
104	Gold and silver ores	E8	18	2	.2	7.7	.2	.3	4.6	4.0	(D)	7.4	(D)	.4	5.8
1041	Gold ores	E7	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.2
108	Metal mining services	E4	24	7	.3	8.7	.3	.5	6.8	15.9	(D)	24.6	(D)	.2	9.1
1081	Metal mining services	E4	24	7	.3	8.7	.3	.5	6.8	15.9	(D)	24.6	(D)	.2	9.1
109	Miscellaneous metal ores	E2	18	5	.2	5.9	.2	.4	4.7	11.4	(D)	17.9	(D)	(NA)	(NA)
1094	Uranium-radium-vanadium ores	–	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	**Coal mining**	–	**7**	**4**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**EE**	**(D)**
122	Bituminous coal and lignite mining	–	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
1221	Bituminous coal and lignite surface mining	–	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	**Oil and gas extraction**	**E7**	**55**	**4**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**.8**	**44.8**
131	Crude petroleum and natural gas	E8	26	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1	20.9
1311	Crude petroleum and natural gas	E8	26	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1	20.9
138	Oil and gas field services	E4	29	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	23.7
14	**Nonmetallic minerals, except fuels**	**E2**	**88**	**13**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**CC**	**(D)**
142	Crushed and broken stone, including riprap	E1	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel	E2	52	9	.6	11.6	.5	1.0	8.8	34.2	17.2	48.6	2.7	BB	(D)
1442	Construction sand and gravel	E2	49	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
149	Miscellaneous nonmetallic minerals, except fuels	E2	17	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1499	Miscellaneous nonmetallic minerals, except fuels	E2	17	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	16	.3	4.0	4.7	(X)
Crushed and broken stone, including riprap	3	(D)	(D)	(D)	(D)
Crushed and broken limestone	3	(D)	(D)	(D)	(D)
Sand and gravel	11	.2	2.9	2.5	6 237.3

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonp duc estl lishme
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
	ALL INDUSTRIES												
	Establishments ..... number	244	230	39	3	16	20	58	4	51	3	3	130	
	Employees 1,000	12.8	12.6	(D)	(D)	(D)	(D)	10.6	(D)	(D)	(D)	(D)	1.6	
	Value added in mining ..... mil dol	1 142.6	1 146.4	(D)	(D)	(D)	(D)	1 052.0	(D)	(D)	(D)	(D)	44.7	-3
10	**METAL MINING**													
	Establishments ..... number	94	94	11	3	8	-	16	4	11	1	1	56	1
	Employees 1,000	10.4	(D)	(D)	(D)	(D)	-	9.0	(D)	(D)	(D)	(D)	(D)	(D
	Value added in mining ..... mil dol	873.3	(D)	(D)	(D)	(D)	-	826.8	(D)	(D)	(D)	(D)	(D)	(D
102	COPPER ORES													
	Establishments ..... number	28	28	8	-	8	-	13	2	10	1	1	6	
	Employees 1,000	9.6	9.6	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)	4	
	Value added in mining ..... mil dol	841.6	841.6	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)	-	
104	GOLD AND SILVER ORES													
	Establishments ..... number	18	13	2	2	-	-	1	-	1	-	-	10	
	Employees 1,000	.2	(D)	(D)	(D)	-	-	(D)	-	(D)	-	-	(D)	(D
	Value added in mining ..... mil dol	4.0	(D)	(D)	(D)	-	-	(D)	-	(D)	-	-	(D)	(D
106	FERROALLOY ORES, EXCEPT VANADIUM													
	Establishments ..... number	6	6	-	-	-	-	-	-	-	-	-	6	
	Employees 1,000	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	
	Value added in mining ..... mil dol	.4	.4	-	-	-	-	-	-	-	-	-	.4	
108	METAL MINING SERVICES													
	Establishments ..... number	24	24	-	-	-	-	-	-	-	-	-	24	
	Employees 1,000	.3	.3	-	-	-	-	-	-	-	-	-	3	
	Value added in mining ..... mil dol	15.9	15.9	-	-	-	-	-	-	-	-	-	15.9	
109	MISCELLANEOUS METAL ORES													
	Establishments ..... number	18	13	1	1	-	-	2	2	-	-	-	10	
	Employees 1,000	.2	(D)	(D)	(D)	-	-	(D)	(D)	-	-	-	(D)	(D
	Value added in mining ..... mil dol	11.4	(D)	(D)	(D)	-	-	(D)	(D)	-	-	-	(D)	(D
12	**COAL MINING**													
	Establishments ..... number	7	7	1	-	1	-	2	-	2	-	-	4	
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	
122	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments ..... number	6	6	1	-	1	-	2	-	2	-	-	3	
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	
124	COAL MINING SERVICES													
	Establishments ..... number	1	1	-	-	-	-	-	-	-	-	-	1	
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	

See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1987**—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
13	**OIL AND GAS EXTRACTION**												
	Establishments ..... number	55	52	20	-	-	20	-	-	-	-	-	32	3
	Employees 1,000	(D)	(D)	(D)	-	-	(D)	-	-	-	-	-	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	-	(D)	-	-	-	-	-	(D)	(D)
131	CRUDE PETROLEUM AND NATURAL GAS												
	Establishments ..... number	26	23	20	-	-	20	-	-	-	-	-	3	3
	Employees 1,000	(D)	(D)	(D)	-	-	(D)	-	-	-	-	-	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)
138	OIL AND GAS FIELD SERVICES												
	Establishments ..... number	29	29	-	-	-	-	-	-	-	-	-	29	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
14	**NONMETALLIC MINERALS, EXCEPT FUELS**												
	Establishments ..... number	88	87	7	-	7	-	40	-	36	2	2	36	1
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP												
	Establishments ..... number	12	12	-	-	-	-	12	-	11	1	-	-	-
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	(D)	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	(D)	-	(D)	(D)	-	-	-
144	SAND AND GRAVEL												
	Establishments ..... number	52	51	3	-	3	-	12	-	12	-	2	34	1
	Employees 1,000	6	(D)	(D)	-	(D)	-	(D)	-	(D)	-	(D)	(D)	(D)
	Value added in mining ..... mil dol	34.2	(D)	(D)	-	(D)	-	(D)	-	(D)	-	(D)	(D)	(D)
145	CLAY, CERAMIC, AND REFRACTORY MINERALS												
	Establishments ..... number	2	2	2	-	2	-	-	-	-	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
147	CHEMICAL AND FERTILIZER MINERAL MINING												
	Establishments ..... number	2	2	1	-	1	-	1	-	-	1	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	-	-	(D)	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	-	(D)	-	-	-
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS												
	Establishments ..... number	3	3	-	-	-	-	-	-	-	-	-	3	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines, only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
14	NONMETALLIC MINERALS, EXCEPT FUELS —Con.													
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ..... number	17	17	1	–	1	–	15	–	15	–	–	1	–
	Employees 1,000	(D)	(D)	–	–	–	–	(D)	–	(D)	–	–	(D)	–
	Value added in mining ..... mil dol	(D)	(D)	(D)	–	(D)	–	(D)	–	(D)	–	–	–	–

[1]Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	Item	1987
Establishments during year ..... number	244	Cost of supplies ..... mil dol	840.9
With 0 to 19 employees ..... do	191	Supplies used, minerals received, and purchased machinery installed ..... do	517.7
With 20 to 99 employees ..... do	38	Resales ..... do	1
With 100 employees or more ..... do	15	Purchased fuels consumed ..... do	56.6
All employees:		Purchased electric energy:	
Average for year 1,000	12.8	Quantity ..... mil kWh	3 400.9
Payroll for year ..... mil dol	372.3	Cost ..... mil dol	160.5
Production, development, and exploration workers:		Electric energy generated less sold ..... mil kWh	(D)
Average for year 1,000	9.9	Contract work ..... mil dol	106.0
March ..... do	9.5	Cost of purchased communication services ..... do	2.2
May ..... do	10.0	Value of shipments and receipts ..... do	1 751.7
August ..... do	9.9	Value of resales ..... do	.2
November ..... do	10.1		
Hours ..... millions	18.7	Capital expenditures during year (except land and mineral rights) ..... do	232.0
January to March ..... do	4.6	New capital expenditures during year ..... do	192.3
April to June ..... do	4.5	Buildings and other structures, except land ..... do	4.0
July to September ..... do	4.7	Machinery and equipment ..... do	188.2
October to December ..... do	4.9	Used capital expenditures during year ..... do	23.1
Wages ..... mil dol	266.0	Buildings and other structures, except land ..... do	.3
Supplemental labor costs not included in payroll ..... do	77.1	Machinery and equipment ..... do	22.8
Legally required expenditures, including Social Security contributions ..... do	32.6	Mineral exploration and development[1] ..... do	16.6
Payments for voluntary programs ..... do	44.3	Rental payments during year ..... do	8.4
Value added by mining ..... do	1 142.8	Buildings and other structures, except land ..... do	.6
Inventories, beginning of 1987 ..... do	310.0	Machinery and equipment ..... do	7.8
Inventories, end of 1987 ..... do	329.2	Expensed mineral exploration, development, land, and rights[1,2] ..... do	(D)

[1]Excludes data for mining services industries and natural gas liquids industries where data were not collected.
[2]Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year: Total (number)	Establishments during year: With 20 employees or more (number)	All employees: Number[2] (1,000)	All employees: Payroll (million dollars)	Production, development, and exploration workers: Number (1,000)	Production, development, and exploration workers: Hours (millions)	Production, development, and exploration workers: Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Arizona	-	**244**	**53**	**12.8**	**372.3**	**9.9**	**18.7**	**266.0**	**1 142.8**	**840.9**	**1 751.7**	**232.0**
	Coconino County	-	**6**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Gila County	-	**12**	**6**	**1.5**	**40.9**	**1.3**	**2.3**	**33.1**	**146.4**	**135.0**	**274.0**	**7.5**
10	**Metal mining**	-	7	4	1.4	38.3	1.2	2.1	31.1	140.4	(D)	264.6	(D)
102	Copper ores	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	**Nonmetallic minerals, except fuels**	E2	**5**	**2**	**.1**	**2.5**	**.1**	**.2**	**2.0**	**6.1**	**(D)**	**9.4**	**(D)**
	Greenlee County	-	**3**	**1**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Maricopa County	E3	**56**	**10**	**.8**	**24.5**	**.5**	**.9**	**9.7**	**28.7**	**21.8**	**44.5**	**5.1**
10	**Metal mining**	E9	18	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores	E9	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
14	**Nonmetallic minerals, except fuels**	E2	37	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	E2	24	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mohave County	E1	**8**	**3**	**.1**	**3.7**	**.1**	**.2**	**2.7**	**5.1**	**7.3**	**10.0**	**2.3**
10	**Metal mining**	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Navajo County	-	**6**	**3**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
12	**Coal mining**	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pima County	-	**27**	**7**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	15	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)
104	Gold and silver ores	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)
14	**Nonmetallic minerals, except fuels**	E1	**12**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Pinal County	-	**15**	**4**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	8	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores	-	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Yavapai County	-	**13**	**3**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Arizona	**244**	**94**	**7**	**55**	**88**
0 to 4 employees	109	35	1	39	34
5 to 9 employees	45	11	-	10	24
10 to 19 employees	37	18	2	2	17
20 to 49 employees	29	16	1	2	10
50 to 99 employees	9	4	1	2	2
Arizona—Con.					
100 to 249 employees	4	3	-	-	1
250 to 499 employees	3	2	1	-	-
500 to 999 employees	6	5	1	-	-
1,000 to 2,499 employees	1	1	-	-	-
2,500 employees or more	1	1	-	-	-

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Arizona—Con.					
Apache	3	–	–	–	3
0 to 19 employees	3	–	–	–	3
Cochise	6	2	–	–	4
0 to 19 employees	4	1	–	–	3
20 to 99 employees	2	1	–	–	1
Coconino	8	3	2	–	3
0 to 19 employees	6	2	1	–	3
20 to 99 employees	2	1	1	–	–
Gila	12	7	–	–	5
0 to 19 employees	6	3	–	–	3
20 to 99 employees	3	1	–	–	2
100 to 249 employees	1	1	–	–	–
250 employees or more	2	2	–	–	–
Graham	1	1	–	–	–
0 to 19 employees	1	1	–	–	–
Greenlee	3	3	–	–	–
0 to 19 employees	2	2	–	–	–
250 employees or more	1	1	–	–	–
La Paz	1	1	–	–	–
0 to 19 employees	1	1	–	–	–
Maricopa	56	18	1	–	37
0 to 19 employees	46	15	–	–	31
20 to 99 employees	8	2	1	–	5
100 to 249 employees	2	1	–	–	1
Mohave	8	6	–	–	2
0 to 19 employees	5	3	–	–	2
20 to 99 employees	3	3	–	–	–
Navajo	6	–	3	–	3
0 to 19 employees	3	–	1	–	2
20 to 99 employees	1	–	–	–	1
250 employees or more	2	–	2	–	–
Pima	27	15	–	–	12
0 to 19 employees	20	9	–	–	11
20 to 99 employees	4	3	–	–	1
100 to 249 employees	1	1	–	–	–
250 employees or more	2	2	–	–	–
Pinal	15	8	–	–	7
0 to 19 employees	11	4	–	–	7
20 to 99 employees	1	1	–	–	–
250 employees or more	3	3	–	–	–
Yavapai	13	4	–	–	9
0 to 19 employees	10	3	–	–	7
20 to 99 employees	2	–	–	–	2
250 employees or more	1	1	–	–	–
Yuma	2	2	–	–	–
0 to 19 employees	1	1	–	–	–
20 to 99 employees	1	1	–	–	–
Undistributed	83	24	1	55	3
0 to 19 employees	72	17	1	51	3
20 to 99 employees	11	7	–	4	–

[1]Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 1,309 establishments classified in mineral industries in Colorado was $2.6 billion in 1987, or 2 percent of the Nation's total. This compares to $4.1 billion in 1982, when it was 2 percent of the Nation's total. Value added by mining amounted to $1.8 billion in 1987, and payroll in mining amounted to $790.4 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making cor parisons to prior years, users should take into conside ation the inflation that has occurred.

Mineral industries employment in Colorado was 21 thousand in 1987, or 3 percent of the Nation's total. This a decrease of 53 percent from 1982. The oil and ga extraction industry led all other mineral industries in th State, accounting for approximately 68 percent of th State's mineral industries employment.

COLORADO - Consolidated Metropolitan Statistical Area, Primary Metropolitan Statistical Areas, Metropolitan Statistical Areas, Counties, and Selected Places

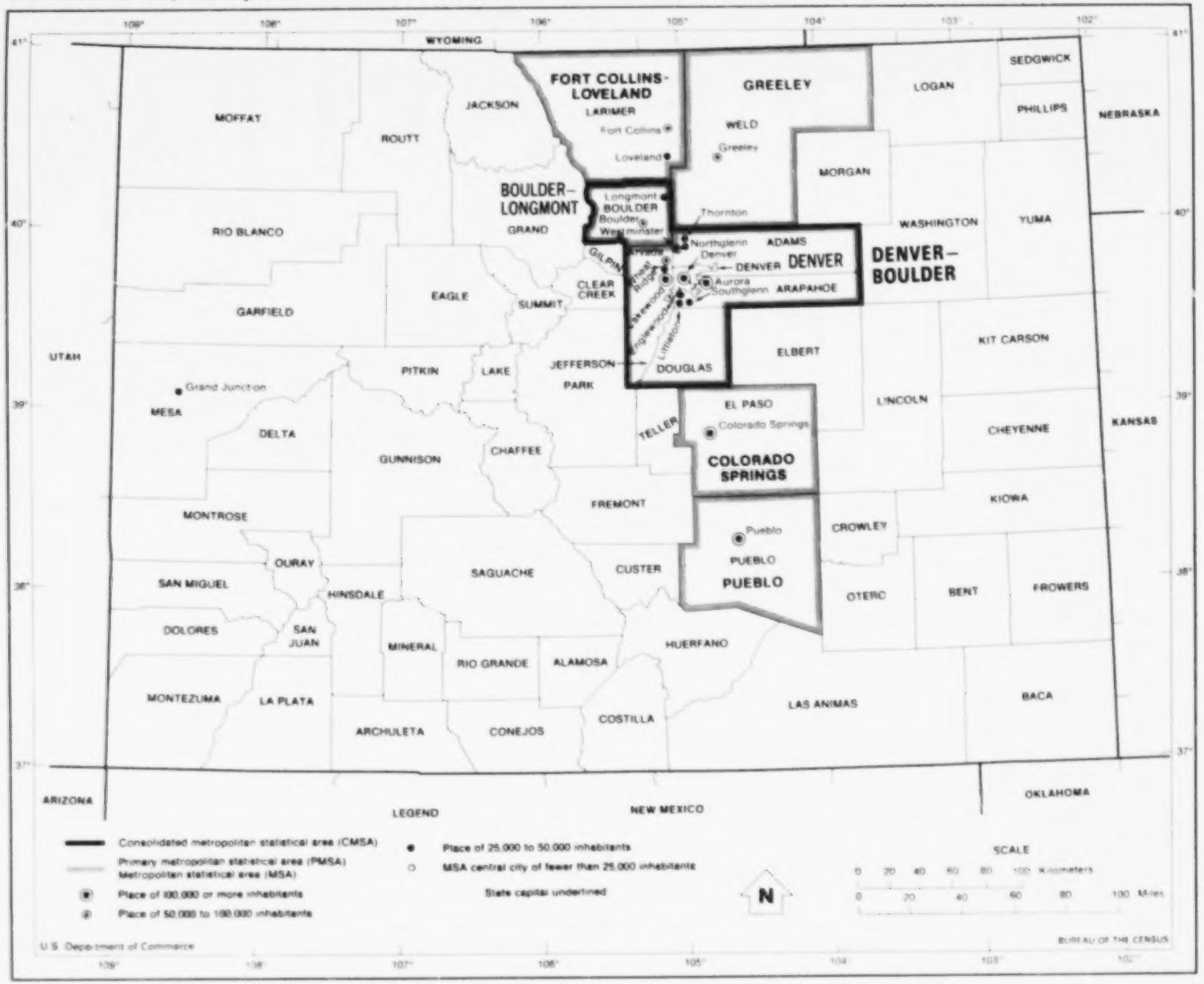

Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1987	1 309	202	21.7	790.4	9.6	20.2	285.4	1 832.1	1 148.0	2 591.3	388.8
1982	[1] 715	(NA)	45.8	1 320.4	24.2	49.4	588.7	3 098.3	2 369.6	4 127.5	1 340.3
1977	976	191	22.7	411.0	14.8	30.0	239.5	1 179.1	863.0	1 599.6	442.5
1972	665	125	13.5	155.6	9.0	18.4	92.3	408.9	222.7	527.1	104.5

[1]Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1987											1982	
			Establishments during year		All employees		Production, development, and exploration workers							
		E[1]	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees[2] (1,000)	Value added by mining (million dollars)
	All industries	**E2**	**1 309**	**202**	**21.7**	**790.4**	**9.6**	**20.2**	**285.4**	**1 832.1**	**1 148.0**	**2 591.3**	**388.8**	**45.8**	**3 098.3**
10	**Metal mining**	**E1**	**123**	**28**	**2.7**	**88.5**	**1.8**	**3.4**	**49.2**	**181.9**	**134.0**	**236.4**	**59.6**	**7.3**	**326.4**
104	Gold and silver ores	E1	45	13	1.1	35.5	.8	1.6	23.8	81.5	77.6	124.1	35.0	EE	(D)
1041	Gold ores	E1	30	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
106	Ferroalloy ores, except vanadium	-	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
1061	Ferroalloy ores, except vanadium	-	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
108	Metal mining services	-	25	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3	5.8
1081	Metal mining services	-	25	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3	5.8
109	Miscellaneous metal ores	E3	35	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	152.1
1094	Uranium-radium-vanadium ores	E3	23	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	146.0
12	**Coal mining**	**-**	**54**	**25**	**3.0**	**114.9**	**1.7**	**3.4**	**58.4**	**226.3**	**109.3**	**295.9**	**39.6**	**7.1**	**359.6**
122	Bituminous coal and lignite mining	-	50	25	3.0	114.7	1.7	3.4	58.3	225.9	109.1	295.4	39.6	7.0	357.2
1221	Bituminous coal and lignite surface mining	-	29	12	1.5	61.6	.7	1.3	24.8	82.3	52.5	121.7	13.2	(NA)	(NA)
1222	Bituminous coal underground mining	-	21	13	1.5	53.1	1.0	2.1	33.4	143.6	56.5	173.7	26.4	(NA)	(NA)
13	**Oil and gas extraction**	**E3**	**1 015**	**133**	**14.8**	**557.7**	**5.4**	**11.8**	**157.4**	**1 368.8**	**882.9**	**1 951.7**	**280.0**	**29.8**	**2 312.9**
131	Crude petroleum and natural gas	E3	515	86	10.8	452.7	2.5	5.1	86.5	1 143.3	488.0	1 378.9	252.3	16.2	1 385.0
1311	Crude petroleum and natural gas	E3	515	86	10.8	452.7	2.5	5.1	86.5	1 143.3	488.0	1 378.9	252.3	16.2	1 385.0
132	Natural gas liquids	E1	24	4	.3	9.7	.2	.4	5.7	43.9	291.9	322.5	13.3	1	108.6
1321	Natural gas liquids	E1	24	4	.3	9.7	.2	.4	5.7	43.9	291.9	322.5	13.3	1	108.6
138	Oil and gas field services	E3	476	43	3.7	95.4	2.7	6.1	65.2	181.7	83.0	250.3	14.5	13.5	819.4
1381	Drilling oil and gas wells	E3	91	14	1.0	24.1	.8	1.8	16.9	51.8	23.8	70.7	4.9	4.0	256.2
1382	Oil and gas field exploration services	E4	160	9	1.2	33.6	.8	1.9	21.2	52.4	24.4	73.8	2.9	3.3	212.6
1389	Oil and gas field services, n.e.c.	E2	225	20	1.5	37.7	1.1	2.4	25.2	77.6	34.9	105.8	6.7	6.1	350.6
14	**Nonmetallic minerals, except fuels**	**E2**	**117**	**16**	**1.2**	**29.4**	**.9**	**1.9**	**20.4**	**75.0**	**41.8**	**107.3**	**9.5**	**1.7**	**99.3**
142	Crushed and broken stone, including riprap	E1	29	4	.3	7.9	.2	.5	5.9	14.8	10.8	22.9	2.8	.5	13.9
1422	Crushed and broken limestone	-	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	7.3
1429	Crushed and broken stone, n.e.c.	E3	14	1	.1	2.9	.1	.2	2.4	6.7	(D)	10.0	(D)	(NA)	(NA)
144	Sand and gravel	E3	59	9	.6	16.5	.5	1.0	11.7	48.6	23.9	67.2	5.3	.8	32.4
1442	Construction sand and gravel	E3	56	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
149	Miscellaneous nonmetallic minerals, except fuels	-	12	3	.2	3.2	.1	.2	1.7	8.3	5.1	12.3	1.1	AA	(D)
1499	Miscellaneous nonmetallic minerals, except fuels	-	12	3	.2	3.2	.1	.2	1.7	8.3	5.1	12.3	1.1	AA	(D)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1 – 10 to 19 percent; E2 – 20 to 29 percent; E3 – 30 to 39 percent; E4 – 40 to 49 percent; E5 – 50 to 59 percent; E6 – 60 to 69 percent; E7 – 70 to 79 percent; E8 – 80 to 89 percent; E9 – 90 percent or more.

[2]General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA – 100 to 249 employees; BB – 250 to 499 employees; CC – 500 to 999 employees; EE – 1,000 to 2,499 employees; FF – 2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

(Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s. tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	18	.2	2.8	4.9	(X)
Crushed and broken stone, including riprap	3	(D)	(D)	(D)	(D)
Crushed and broken limestone	3	(D)	(D)	(D)	(D)
Sand and gravel	14	.1	1.1	1.4	1 382.4

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed*	
				Total	Underground mines	Open pit mines	Combination methods, and operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
	ALL INDUSTRIES													
	Establishments ..... number	1 309	1 260	481	20	24	437	86	18	68	-	24	669	49
	Employees 1,000	21.7	21.2	5.7	3	4	5.0	3.6	2.3	1.4	-	3	11.6	4
	Value added in mining ..... mil dol	1 892.1	1 840.7	1 244.1	36.6	39.7	1 165.9	320.1	209.3	110.8	-	(D)	(D)	48
10	**METAL MINING**													
	Establishments ..... number	123	104	16	14	2	-	12	9	3	-	1	75	19
	Employees 1,000	2.7	2.5	(D)	(D)	(D)	-	1.4	(D)	(D)	-	(D)	(D)	2
	Value added in mining ..... mil dol	161.9	164.7	(D)	(D)	(D)	-	134.0	(D)	(D)	-	(D)	(D)	-3
101	IRON ORES													
	Establishments ..... number	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
102	COPPER ORES													
	Establishments ..... number	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
103	LEAD AND ZINC ORES													
	Establishments ..... number	3	2	1	1	-	-	-	-	-	-	-	1	-
	Employees 1,000	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-
104	GOLD AND SILVER ORES													
	Establishments ..... number	46	34	3	3	-	-	8	5	3	-	-	23	12
	Employees 1,000	1.1	1.0	(D)	(D)	-	-	(D)	(D)	(D)	-	-	(D)	(D)
	Value added in mining ..... mil dol	81.5	88.4	(D)	(D)	-	-	(D)	(D)	(D)	-	-	-	-
106	FERROALLOY ORES, EXCEPT VANADIUM													
	Establishments ..... number	13	13	-	-	-	-	2	2	-	-	-	11	-
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	(D)	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	(D)	(D)	-	-	-	-	-
108	METAL MINING SERVICES													
	Establishments ..... number	25	25	-	-	-	-	-	-	-	-	-	25	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
10	**METAL MINING**—Con.												
109	MISCELLANEOUS METAL ORES												
	Establishments ..... number	36	28	10	10	–	–	2	2	–	–	1	15	7
	Employees 1,000	(D)	(D)	(D)	(D)	–	–	(D)	(D)	–	–	(D)	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	(D)	–	–	(D)	(D)	–	–	(D)	(D)	(D)
12	**COAL MINING**												
	Establishments ..... number	54	50	19	6	12	1	14	9	5	–	–	17	4
	Employees 1,000	3.0	3.0	.7	(D)	(D)	(D)	1.5	(D)	(D)	–	–	.8	(Z)
	Value added in mining ..... mil dol	226.3	(D)	(D)	(D)	(D)	(D)	135.6	(D)	(D)	–	–	4	(D)
122	BITUMINOUS COAL AND LIGNITE MINING												
	Establishments ..... number	50	46	19	6	12	1	14	9	5	–	–	13	4
	Employees 1,000	3.0	3.0	.7	(D)	(D)	(D)	1.5	(D)	(D)	–	–	.8	(Z)
	Value added in mining ..... mil dol	225.9	(D)	(D)	(D)	(D)	(D)	135.6	(D)	(D)	–	–	–	(D)
124	COAL MINING SERVICES												
	Establishments ..... number	4	4	–	–	–	–	–	–	–	–	–	4	–
	Employees 1,000	(Z)	(Z)	–	–	–	–	–	–	–	–	–	(Z)	–
	Value added in mining ..... mil dol	.4	.4	–	–	–	–	–	–	–	–	–	.4	–
13	**OIL AND GAS EXTRACTION**												
	Establishments ..... number	1 015	980	436	–	–	436	–	–	–	–	23	534	22
	Employees 1,000	14.8	14.6	(D)	–	–	(D)	–	–	–	–	(D)	(D)	.2
	Value added in mining ..... mil dol	1 368.8	(D)	(D)	–	–	(D)	–	–	–	–	43.9	181.7	(D)
131	CRUDE PETROLEUM AND NATURAL GAS												
	Establishments ..... number	515	493	436	–	–	436	–	–	–	–	–	57	22
	Employees 1,000	10.8	10.6	(D)	–	–	(D)	–	–	–	–	–	(D)	.2
	Value added in mining ..... mil dol	1 143.3	(D)	(D)	–	–	(D)	–	–	–	–	–	–	(D)
132	NATURAL GAS LIQUIDS												
	Establishments ..... number	24	24	–	–	–	–	–	–	–	–	23	1	–
	Employees 1,000	.3	.3	–	–	–	–	–	–	–	–	(D)	(D)	–
	Value added in mining ..... mil dol	43.9	43.9	–	–	–	–	–	–	–	–	43.9	–	–
138	OIL AND GAS FIELD SERVICES												
	Establishments ..... number	476	476	–	–	–	–	–	–	–	–	–	476	–
	Employees 1,000	3.7	3.7	–	–	–	–	–	–	–	–	–	3.7	–
	Value added in mining ..... mil dol	181.7	181.7	–	–	–	–	–	–	–	–	–	181.7	–
14	**NONMETALLIC MINERALS, EXCEPT FUELS**												
	Establishments ..... number	117	113	10	–	10	–	60	–	50	–	–	43	4
	Employees 1,000	1.2	1.1	(Z)	–	(Z)	–	.7	–	.7	–	–	.4	(Z)
	Value added in mining ..... mil dol	75.0	75.5	1.0	–	1.0	–	50.6	–	50.6	–	–	23.9	–.5
141	DIMENSION STONE												
	Establishments ..... number	3	3	3	–	3	–	–	–	–	–	–	–	–
	Employees 1,000	(Z)	(Z)	(Z)	–	(Z)	–	–	–	–	–	–	–	–
	Value added in mining ..... mil dol	.3	.3	.3	–	.3	–	–	–	–	–	–	–	–

[1] See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Industry Group for the State: 1987**—Con.

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
14	**NONMETALLIC MINERALS, EXCEPT FUELS**—Con.												
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP												
	Establishments ..... number	29	29	1	–	1	–	27	–	27	–	–	1	–
	Employees 1,000	3	3	(D)	–	(D)	–	(D)	–	(D)	–	–	(Z)	–
	Value added in mining ..... mil dol	14.8	14.8	(D)	–	(D)	–	(D)	–	(D)	–	–	–	–
144	SAND AND GRAVEL												
	Establishments ..... number	59	55	2	–	2	–	22	–	22	–	–	31	4
	Employees 1,000	6	6	(D)	–	(D)	–	(D)	–	(D)	–	–	3	(Z)
	Value added in mining ..... mil dol	48.6	49.1	(D)	–	(D)	–	(D)	–	(D)	–	–	21.5	-5
145	CLAY, CERAMIC, AND REFRACTORY MINERALS												
	Establishments ..... number	2	2	–	–	–	–	2	–	2	–	–	–	–
	Employees 1,000	(D)	(D)	–	–	–	–	(D)	–	(D)	–	–	–	–
	Value added in mining ..... mil dol	(D)	(D)	–	–	–	–	(D)	–	(D)	–	–	–	–
147	CHEMICAL AND FERTILIZER MINERAL MINING												
	Establishments ..... number	2	2	1	–	1	–	1	–	1	–	–	–	–
	Employees 1,000	(D)	(D)	(D)	–	(D)	–	(D)	–	(D)	–	–	–	–
	Value added in mining ..... mil dol	(D)	(D)	(D)	–	(D)	–	(D)	–	(D)	–	–	–	–
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS												
	Establishments ..... number	10	10	–	–	–	–	–	–	–	–	–	10	–
	Employees 1,000	1	1	–	–	–	–	–	–	–	–	–	1	–
	Value added in mining ..... mil dol	2.4	2.4	–	–	–	–	–	–	–	–	–	2.4	–
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS												
	Establishments ..... number	12	12	3	–	3	–	8	–	8	–	–	1	–
	Employees 1,000	2	2	(Z)	–	(Z)	–	1	–	1	–	–	(Z)	–
	Value added in mining ..... mil dol	8.3	8.3	(D)	–	(D)	–	(D)	–	(D)	–	–	–	–

[1]Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	Item	1987
Establishments during year ..... number	1 909	Cost of supplies ..... mil dol	1 148.0
With 0 to 19 employees ..... do	1 107	Supplies used, minerals received, and purchased machinery installed ..... do	736.4
With 20 to 99 employees ..... do	160	Resales ..... do	2.9
With 100 employees or more ..... do	42	Purchased fuels consumed ..... do	52.1
All employees		Purchased electric energy	
Average for year 1,000	21.7	Quantity ..... mil kWh	1 586.0
Payroll for year ..... mil dol	790.4	Cost ..... mil dol	86.2
Production, development, and exploration workers		Electric energy generated less sold ..... mil kWh	(D)
Average for year 1,000	9.6	Contract work ..... mil dol	270.5
March ..... do	9.4	Cost of purchased communication services ..... do	4.3
May ..... do	9.5		
August ..... do	9.5	Value of shipments and receipts ..... do	2 591.3
November ..... do	9.9	Value of resales ..... do	3.2
Hours ..... millions	20.2		
January to March ..... do	5.0	Capital expenditures during year (except land and mineral rights) ..... do	388.8
April to June ..... do	5.0	New capital expenditures during year ..... do	155.0
July to September ..... do	5.0	Buildings and other structures, except land ..... do	27.0
October to December ..... do	5.2	Machinery and equipment ..... do	125.1
Wages ..... mil dol	285.4	Used capital expenditures during year ..... do	26.8
Supplemental labor costs not included in payroll ..... do	109.1	Buildings and other structures, except land ..... do	1.1
Legally required expenditures, including Social Security contributions ..... do	49.1	Machinery and equipment ..... do	25.7
Payments for voluntary programs ..... do	60.0	Mineral exploration and development[1] ..... do	207.0
Value added by mining ..... do	1 832.1	Rental payments during year ..... do	32.4
Inventories, beginning of 1987 ..... do	211.3	Buildings and other structures, except land ..... do	14.3
Inventories, end of 1987 ..... do	212.7	Machinery and equipment ..... do	18.1
		Expensed mineral exploration, development, land, and rights[1,2] ..... do	242.8

[1]Excludes data for mining services industries and natural gas liquids industries where data were not collected.
[2]Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year: Total (number)	Establishments during year: With 20 employees or more (number)	All employees: Number[2] (1,000)	All employees: Payroll (million dollars)	Production, development, and exploration workers: Number (1,000)	Production, development, and exploration workers: Hours (millions)	Production, development, and exploration workers: Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Colorado	**E2**	**1 309**	**202**	**21.7**	**790.4**	**9.6**	**20.2**	**285.4**	**1 832.1**	**1 148.0**	**2 591.3**	**388.8**
	Adams County	**-**	**16**	**4**	**.2**	**6.7**	**.1**	**.3**	**2.8**	**10.5**	**59.1**	**58.4**	**1.3**
13	**Oil and gas extraction**	**-**	**5**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
132	Natural gas liquids	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Arapahoe County	**E2**	**27**	**5**	**.3**	**33.1**	**.1**	**.3**	**3.7**	**13.8**	**(D)**	**31.9**	**(D)**
12	**Coal mining**	**E3**	**10**	**4**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
122	Bituminous coal and lignite mining	E3	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Boulder County	**E2**	**13**	**1**	**.1**	**2.4**	**.1**	**.2**	**1.8**	**6.9**	**2.9**	**8.6**	**1.2**
	Clear Creek County	**-**	**3**	**1**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	**-**	**1**	**1**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
106	Ferroalloy ores, except vanadium	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Denver County	**E8**	**28**	**6**	**.4**	**15.8**	**.1**	**.3**	**4.3**	**17.6**	**25.2**	**40.2**	**2.5**
10	**Metal mining**	**E3**	**18**	**3**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
104	Gold and silver ores	E2	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2	**Coal mining**	**E9**	**6**	**3**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
122	Bituminous coal and lignite mining	E9	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	El Paso County	**E1**	**13**	**4**	**.2**	**4.2**	**.1**	**.2**	**2.7**	**7.1**	**5.6**	**11.2**	**1.4**
1	**Nonmetallic minerals, except fuels**	**-**	**10**	**3**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Fremont County	**-**	**6**	**2**	**.1**	**4.6**	**.1**	**.2**	**3.6**	**8.8**	**4.1**	**12.7**	**.3**
	Gunnison County	**-**	**6**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Coal mining	**-**	**5**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Bituminous coal and lignite mining	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	**E2**	**36**	**11**	**.5**	**24.0**	**.2**	**.4**	**5.7**	**11.8**	**25.3**	**21.2**	**15.9**
	Metal mining	**E2**	**20**	**6**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Gold and silver ores	E9	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Ferroalloy ores, except vanadium	E9	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Miscellaneous metal ores	E2	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Nonmetallic minerals, except fuels	**E1**	**13**	**3**	**.1**	**4.3**	**.1**	**.2**	**2.1**	**8.8**	**(D)**	**11.7**	**(D)**
	Lake County	**-**	**6**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Metal mining	**-**	**4**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Gold and silver ores	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1987—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year: Total (number)	Establishments during year: With 20 employees or more (number)	All employees: Number[2] (1,000)	All employees: Payroll (million dollars)	Production, development, and exploration workers: Number (1,000)	Production, development, and exploration workers: Hours (millions)	Production, development, and exploration workers: Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Colorado—Con.												
	La Plata County	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Larimer County	E5	14	2	.1	3.0	.1	.2	2.2	11.6	11.9	21.9	1.8
14	**Nonmetallic minerals, except fuels**	E2	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mesa County	E9	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Moffat County	–	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	**Coal mining**	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	–	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Montrose County	E2	12	1	.1	3.6	.1	.2	2.4	1.5	(D)	5.6	(D)
10	**Metal mining**	E1	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pitkin County	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	**Coal mining**	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rio Blanco County	–	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	**Coal mining**	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rio Grande County	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	**Metal mining**	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Routt County	–	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	**Coal mining**	–	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	–	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	San Juan County	–	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	**Metal mining**	–	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	–	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude pitroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbrevia and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Colorado	1 309	123	54	1 015	117
0 to 4 employees	749	57	13	633	46
5 to 9 employees	216	21	8	156	31
10 to 19 employees	142	17	8	93	24
20 to 49 employees	112	14	8	78	12
50 to 99 employees	48	9	8	27	4
100 to 249 employees	29	3	7	19	–
250 to 499 employees	9	1	2	6	–
500 to 999 employees	4	1	–	3	–
Adams	16	3	–	5	8
0 to 19 employees	12	3	–	3	6
20 to 99 employees	4	–	–	2	2

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Colorado—Con.					
Alamosa	3	1	–	–	
0 to 19 employees	2	1	–	–	
20 to 99 employees	1	–	–	–	
Arapahoe	27	7	10	4	
0 to 19 employees	22	6	6	4	
20 to 99 employees	2	1	1	–	
100 to 249 employees	3	–	3	–	
Boulder	13	4	–	–	
0 to 19 employees	12	4	–	–	
20 to 99 employees	1	–	–	–	

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Colorado—Con.					
Chaffee	1	-	-	-	1
0 to 19 employees	1	-	-	-	1
Clear Creek	3	1	-	-	2
0 to 19 employees	2	-	-	-	2
250 employees or more	1	1	-	-	-
Conejos	1	-	-	-	1
20 to 99 employees	1	-	-	-	1
Costilla	2	1	-	-	1
0 to 19 employees	1	1	-	-	-
20 to 99 employees	1	-	-	-	1
Delta	3	-	1	-	2
0 to 19 employees	2	-	-	-	2
20 to 99 employees	1	-	1	-	-
Denver	28	18	6	2	3
0 to 19 employees	22	15	3	2	3
20 to 99 employees	5	3	2	-	-
100 to 249 employees	1	-	1	-	-
Dolores	1	1	-	-	-
0 to 19 employees	1	1	-	-	-
Douglas	2	-	-	-	2
0 to 19 employees	2	-	-	-	2
Eagle	2	-	-	-	2
0 to 19 employees	2	-	-	-	2
Elbert	1	-	-	1	-
0 to 19 employees	1	-	-	1	-
El Paso	13	2	1	-	10
0 to 19 employees	9	1	1	-	7
20 to 99 employees	4	1	-	-	3
Fremont	6	1	3	-	2
0 to 19 employees	4	-	2	-	2
20 to 99 employees	2	1	1	-	-
Garfield	4	-	2	-	2
0 to 19 employees	3	-	2	-	1
20 to 99 employees	1	-	-	-	1
Grand	1	-	-	-	1
0 to 19 employees	1	-	-	-	1
Gunnison	6	1	5	-	-
0 to 19 employees	4	1	3	-	-
20 to 99 employees	2	-	2	-	-
Jackson	1	-	1	-	-
0 to 19 employees	1	-	1	-	-
Jefferson	36	20	3	-	13
0 to 19 employees	25	14	1	-	10
20 to 99 employees	10	5	2	-	3
100 to 249 employees	1	1	-	-	-
Lake	6	4	-	-	2
0 to 19 employees	4	2	-	-	2
20 to 99 employees	1	1	-	-	-
100 to 249 employees	1	1	-	-	-
La Plata	5	1	2	1	1
0 to 19 employees	3	1	1	-	1
20 to 99 employees	2	-	1	1	-
Larimer	14	2	-	1	11
0 to 19 employees	12	2	-	1	9
20 to 99 employees	2	-	-	-	2
Colorado—Con.					
Las Animas	3	-	1	-	2
0 to 19 employees	2	-	-	-	2
20 to 99 employees	1	-	1	-	-
Mesa	8	4	2	-	2
0 to 19 employees	6	3	2	-	1
20 to 99 employees	2	1	-	-	1
Mineral	1	1	-	-	-
20 to 99 employees	1	1	-	-	-
Moffat	5	2	3	-	-
0 to 19 employees	2	2	-	-	-
100 to 249 employees	2	-	2	-	-
250 employees or more	1	-	1	-	-
Montezuma	4	1	-	-	3
0 to 19 employees	4	1	-	-	3
Montrose	12	8	1	-	3
0 to 19 employees	11	7	1	-	3
20 to 99 employees	1	1	-	-	-
Morgan	1	-	-	-	1
0 to 19 employees	1	-	-	-	1
Ouray	2	2	-	-	-
0 to 19 employees	1	1	-	-	-
20 to 99 employees	1	1	-	-	-
Park	3	2	-	-	1
0 to 19 employees	2	1	-	-	1
20 to 99 employees	1	1	-	-	-
Pitkin	1	-	1	-	-
250 employees or more	1	-	1	-	-
Pueblo	5	-	-	-	5
0 to 19 employees	5	-	-	-	5
Rio Blanco	7	-	1	6	-
0 to 19 employees	6	-	-	6	-
100 to 249 employees	1	-	1	-	-
Rio Grande	1	1	-	-	-
100 to 249 employees	1	1	-	-	-
Routt	8	-	7	-	1
0 to 19 employees	3	-	2	-	1
20 to 99 employees	5	-	5	-	-
Saguache	3	1	-	-	2
0 to 19 employees	2	-	-	-	2
20 to 99 employees	1	1	-	-	-
San Juan	5	4	-	-	1
0 to 19 employees	4	3	-	-	1
250 employees or more	1	1	-	-	-
San Miguel	2	1	-	-	1
0 to 19 employees	2	1	-	-	1
Summit	3	1	-	-	2
0 to 19 employees	3	1	-	-	2
Teller	4	3	-	-	1
0 to 19 employees	4	3	-	-	1
Weld	5	-	-	4	1
0 to 19 employees	4	-	-	3	1
20 to 99 employees	1	-	-	1	-
Undistributed	1 030	25	4	991	10
0 to 19 employees	896	20	4	862	10
20 to 99 employees	106	5	-	101	-
100 to 249 employees	19	-	-	19	-
250 employees or more	9	-	-	9	-

[1]Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

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-- Not applicable for this report.

SUMMARY OF FINDINGS

The total value of shipments and receipts for the 109 establishments classified in mineral industries in Idaho was $242.8 million in 1987 compared to $303.7 million in 1982. Value added by mining amounted to $171.3 million in 1987, and payroll in mining amounted to $71.6 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Idaho was 2.4 thousand in 1987. This is a decrease of 23 percent from 1982. The metal mining industry led all other mineral industries in the State, accounting for approximately 63 percent of the State's mineral industries employment.

State Map

IDAHO - Metropolitan Statistical Area, Counties, and Selected Places

Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1987	109	23	2.4	71.6	1.8	3.8	50.6	171.3	107.6	242.8	36.1
1982	[1]160	(NA)	3.1	86.6	2.4	5.0	67.1	199.5	135.8	303.7	31.6
1977	125	24	3.3	52.9	2.7	5.4	41.8	144.1	81.2	184.7	40.7
1972	94	20	2.8	28.6	2.4	4.7	22.8	51.3	38.6	84.4	5.5

[1]Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1987											1982	
			Establishments during year		All employees		Production, development, and exploration workers							
		E[1]	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees[2] (1,000)	Value added by mining (million dollars)
	All industries	**E1**	**109**	**23**	**2.4**	**71.6**	**1.8**	**3.8**	**50.6**	**171.3**	**107.6**	**242.8**	**36.1**	**3.1**	**199.5**
10	**Metal mining**	**E1**	**57**	**12**	**1.5**	**48.1**	**1.2**	**2.4**	**33.6**	**87.3**	**47.3**	**122.3**	**12.4**	**1.9**	**118.1**
104	Gold and silver ores	E1	26	7	1.0	31.1	.7	1.5	20.6	64.1	24.4	78.9	9.6	1.5	108.7
1041	Gold ores	E2	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1044	Silver ores	-	15	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
106	Ferroalloy ores, except vanadium	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1061	Ferroalloy ores, except vanadium	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	**Nonmetallic minerals, except fuels**	**-**	**48**	**11**	**.9**	**23.4**	**.7**	**1.4**	**16.9**	**83.9**	**60.2**	**120.5**	**23.6**	**.9**	**70.6**
144	Sand and gravel	E3	21	-	.1	2.0	.1	.2	1.4	3.7	3.1	6.5	.3	.1	3.5
147	Chemical and fertilizer mineral mining	-	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	54.0
1475	Phosphate rock	-	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
148	Nonmetallic minerals services, except fuels	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.7
1481	Nonmetallic minerals services, except fuels	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.7

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
	ALL INDUSTRIES												
	Establishments ..... number	109	99	23	12	10	1	24	4	20	-	2	50	10
	Employees 1,000	2.4	2.3	.5	(D)	(D)	-	1.3	(D)	(D)	-	(D)	(D)	1
	Value added in mining ..... mil dol	171.3	171.5	53.4	(D)	(D)	-	87.6	(D)	(D)	-	(D)	(D)	-2
10	**METAL MINING**													
	Establishments ..... number	57	51	16	12	4	-	5	4	1	-	1	29	6
	Employees 1,000	1.5	(D)	(D)	(D)	(D)	-	8	(D)	(D)	-	(D)	(D)	(D)
	Value added in mining ..... mil dol	87.3	(D)	(D)	(D)	(D)	-	40.9	(D)	(D)	-	(D)	(D)	(D)
102	COPPER ORES													
	Establishments ..... number	3	3	2	-	2	-	-	-	-	-	-	1	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
103	LEAD AND ZINC ORES													
	Establishments ..... number	5	4	4	4	-	-	-	-	-	-	-	-	1
	Employees 1,000	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(D)
104	GOLD AND SILVER ORES													
	Establishments ..... number	26	22	10	8	2	-	4	4	-	-	-	6	4
	Employees 1,000	1.0	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	(D)	(D)
	Value added in mining ..... mil dol	64.1	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	(D)	(D)
106	FERROALLOY ORES, EXCEPT VANADIUM													
	Establishments ..... number	4	3	-	-	-	-	1	-	1	-	-	2	1
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	(D)	(D)
108	METAL MINING SERVICES													
	Establishments ..... number	14	14	-	-	-	-	-	-	-	-	-	14	-
	Employees 1,000	.1	.1	-	-	-	-	-	-	-	-	-	1	-
	Value added in mining ..... mil dol	6.2	6.2	-	-	-	-	-	-	-	-	-	6.2	-
109	MISCELLANEOUS METAL ORES													
	Establishments ..... number	5	5	-	-	-	-	-	-	-	-	1	4	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	(D)	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	-	-
13	**OIL AND GAS EXTRACTION**													
	Establishments ..... number	6	5	1	-	-	-	1	-	-	-	-	4	1
	Employees 1,000	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining ..... mil dol	(Z)	(Z)	-	-	-	-	-	-	-	-	-	-	-
131	CRUDE PETROLEUM AND NATURAL GAS													
	Establishments ..... number	2	1	1	-	-	-	1	-	-	-	-	-	1
	Employees 1,000	-	-	-	-	-	-	-	-	-	-	-	-	-
	Value added in mining ..... mil dol	-	-	-	-	-	-	-	-	-	-	-	-	-
138	OIL AND GAS FIELD SERVICES													
	Establishments ..... number	4	4	-	-	-	-	-	-	-	-	-	4	-
	Employees 1,000	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining ..... mil dol	(Z)	(Z)	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
14	**NONMETALLIC MINERALS, EXCEPT FUELS**												
	Establishments ..... number	46	43	6	-	6	-	19	-	19	-	1	17	3
	Employees 1,000	9	(D)	(D)	-	(D)	-	.5	-	.5	-	(D)	(D)	(D)
	Value added in mining ..... mil dol	83.9	(D)	(D)	-	(D)	-	46.7	-	46.7	-	(D)	(D)	(D)
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP												
	Establishments ..... number	6	6	-	-	-	-	6	-	6	-	-	-	-
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
144	SAND AND GRAVEL												
	Establishments ..... number	21	19	1	-	1	-	5	-	5	-	1	12	2
	Employees 1,000	1	(D)	(D)	-	(D)	-	(Z)	-	(Z)	-	(D)	(Z)	(D)
	Value added in mining ..... mil dol	3.7	(D)	(D)	-	(D)	-	1.8	-	1.8	-	(D)	(D)	(D)
145	CLAY, CERAMIC, AND REFRACTORY MINERALS												
	Establishments ..... number	2	2	1	-	1	-	1	-	1	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
147	CHEMICAL AND FERTILIZER MINERAL MINING												
	Establishments ..... number	7	7	3	-	3	-	3	-	3	-	-	1	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS												
	Establishments ..... number	4	4	-	-	-	-	-	-	-	-	-	4	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS												
	Establishments ..... number	6	5	1	-	1	-	4	-	4	-	-	-	1
	Employees 1,000	1	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	(D)
	Value added in mining ..... mil dol	4.9	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	(D)

[1]Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1987

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Item	1987	Item	19
Establishments during year ..... number	109	Cost of supplies ..... mil dol	107
With 0 to 19 employees ..... do	86	Supplies used, minerals received, and purchased machinery installed ..... do	56
With 20 to 99 employees ..... do	16	Resales ..... do	(Z
With 100 employees or more ..... do	7	Purchased fuels consumed ..... do	10
All employees:		Purchased electric energy:	
Average for year 1,000	2.4	Quantity ..... mil kWh	412
Payroll for year ..... mil dol	71.8	Cost ..... mil dol	13
Production, development, and exploration workers:		Electric energy generated/sold ..... mil kWh	(D
Average for year 1,000	1.8	Contract work ..... mil dol	28
March ..... do	1.7	Cost of purchased communication services ..... do	4
May ..... do	1.8	Value of shipments and receipts ..... do	242
August ..... do	1.9	Value of resales ..... do	(Z
November ..... do	1.8	Capital expenditures during year (except land and mineral rights) ..... do	36
Hours ..... millions	3.8	New capital expenditures during year ..... do	(D
January to March ..... do	.9	Buildings and other structures, except land ..... do	(D
April to June ..... do	1.0	Machinery and equipment ..... do	(D
July to September ..... do	1.0	Used capital expenditures during year ..... do	1.3
October to December ..... do	.9	Buildings and other structures, except land ..... do	1
Wages ..... mil dol	50.6	Machinery and equipment ..... do	1.2
Supplemental labor costs not included in payroll ..... do	17.9	Mineral exploration and development[1] ..... do	(D
Legally required expenditures, including Social Security contributions ..... do	7.1	Rental payments during year ..... do	4.3
Payments for voluntary programs ..... do	10.8	Buildings and other structures, except land ..... do	1
Value added by mining ..... do	171.3	Machinery and equipment ..... do	4.2
Inventories, beginning of 1987 ..... do	69.6	Expensed mineral exploration, development, land, and rights[1,2] ..... do	(D
Inventories, end of 1987 ..... do	73.5		

[1]Excludes data for mining services industries and natural gas liquids industries where data were not collected.
[2]Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1987

(Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

SIC code	Geographic area and industry group	E[1]	Establishments during year: Total (number)	Establishments during year: With 20 employees or more (number)	All employees: Number[2] (1,000)	All employees: Payroll (million dollars)	Production, development, and exploration workers: Number (1,000)	Production, development, and exploration workers: Hours (millions)	Production, development, and exploration workers: Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expend-itures (million dollars)
	Idaho	**E1**	**109**	**23**	**2.4**	**71.8**	**1.8**	**3.8**	**50.6**	**171.3**	**107.6**	**242.8**	**36.1**
	Bannock County	–	**2**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
14	**Nonmetallic minerals, except fuels**	–	**2**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
147	Chemical and fertilizer mineral mining	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Caribou County	–	**5**	**5**	**.4**	**16.4**	**.3**	**.7**	**8.3**	**47.9**	**(D)**	**58.2**	**(D)**
14	**Nonmetallic minerals, except fuels**	–	**4**	**4**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
147	Chemical and fertilizer mineral mining	–	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Custer County	–	**6**	**1**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	–	**5**	**1**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
108	Ferroalloy ores, except vanadium	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Owyhee County	–	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	–	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
104	Gold and silver ores	–	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Shoshone County	**E2**	**31**	**8**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	**E2**	**21**	**8**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
104	Gold and silver ores	E1	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.
[2]Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Idaho	**109**	**57**	**–**	**6**	**46**
0 to 4 employees	51	26	–	6	19
5 to 9 employees	24	11	–	–	13
10 to 19 employees	11	8	–	–	3
20 to 49 employees	12	5	–	–	7
50 to 99 employees	4	3	–	–	1
100 to 249 employees	5	2	–	–	3
250 to 499 employees	2	2	–	–	–
Ada	**13**	**6**	**–**	**–**	**7**
0 to 19 employees	13	6	–	–	7
Bannock	**2**	**–**	**–**	**–**	**2**
0 to 19 employees	1	–	–	–	1
100 to 249 employees	1	–	–	–	1
Benewah	**2**	**–**	**–**	**–**	**2**
0 to 19 employees	1	–	–	–	1
20 to 99 employees	1	–	–	–	1
Blaine	**3**	**1**	**–**	**–**	**1**
0 to 19 employees	2	1	–	–	1
Bonner	**1**	**1**	**–**	**–**	**–**
0 to 19 employees	1	1	–	–	–
Canyon	**3**	**–**	**–**	**–**	**3**
0 to 19 employees	3	–	–	–	3
Caribou	**5**	**1**	**–**	**–**	**4**
20 to 99 employees	3	1	–	–	2
100 to 249 employees	2	–	–	–	2
Cassia	**2**	**–**	**–**	**–**	**2**
0 to 19 employees	2	–	–	–	2
Clark	**1**	**–**	**–**	**–**	**1**
0 to 19 employees	1	–	–	–	1
Custer	**6**	**5**	**–**	**–**	**1**
0 to 19 employees	5	4	–	–	1
250 employees or more	1	1	–	–	–
Elmore	**3**	**1**	**–**	**–**	**2**
0 to 19 employees	2	1	–	–	1
20 to 99 employees	1	–	–	–	1
Franklin	**1**	**–**	**–**	**–**	**1**
0 to 19 employees	1	–	–	–	1
Idaho—Con.					
Fremont	1	–	–	–	1
0 to 19 employees	1	–	–	–	1
Gem	1	–	–	–	1
0 to 19 employees	1	–	–	–	1
Gooding	1	–	–	–	1
0 to 19 employees	1	–	–	–	1
Idaho	1	1	–	–	–
0 to 19 employees	1	1	–	–	–
Kootenai	6	4	–	–	2
0 to 19 employees	6	4	–	–	2
Latah	2	–	–	–	2
0 to 19 employees	2	–	–	–	2
Lemhi	1	1	–	–	–
0 to 19 employees	1	1	–	–	–
Lincoln	1	–	–	–	1
0 to 19 employees	1	–	–	–	1
Madison	1	–	–	–	1
0 to 19 employees	1	–	–	–	1
Oneida	2	–	–	–	2
20 to 99 employees	2	–	–	–	2
Owyhee	1	1	–	–	–
100 to 249 employees	1	1	–	–	–
Payette	1	–	–	–	1
0 to 19 employees	1	–	–	–	1
Shoshone	21	21	–	–	–
0 to 19 employees	13	13	–	–	–
20 to 99 employees	6	6	–	–	–
100 to 249 employees	1	1	–	–	–
250 employees or more	1	1	–	–	–
Twin Falls	3	–	–	–	3
0 to 19 employees	3	–	–	–	3
Valley	1	–	–	–	1
0 to 19 employees	1	–	–	–	1
Undistributed	24	14	–	6	4
0 to 19 employees	21	13	–	6	2
20 to 99 employees	3	1	–	–	2

[1]Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 398 establishments classified in mineral industries in Montana was $1.4 billion in 1987, or 1 percent of the Nation's total. This compares to $2.0 billion in 1982, when it was 1 percent of the Nation's total. Value added by mining amounted to $1.2 billion in 1987, and payroll in mining amounted to $163.4 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Montana was 5.7 thousand in 1987, or 1 percent of the Nation's total. This is a decrease of 33 percent from 1982. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 35 percent of the State's mineral industries employment.

State Map

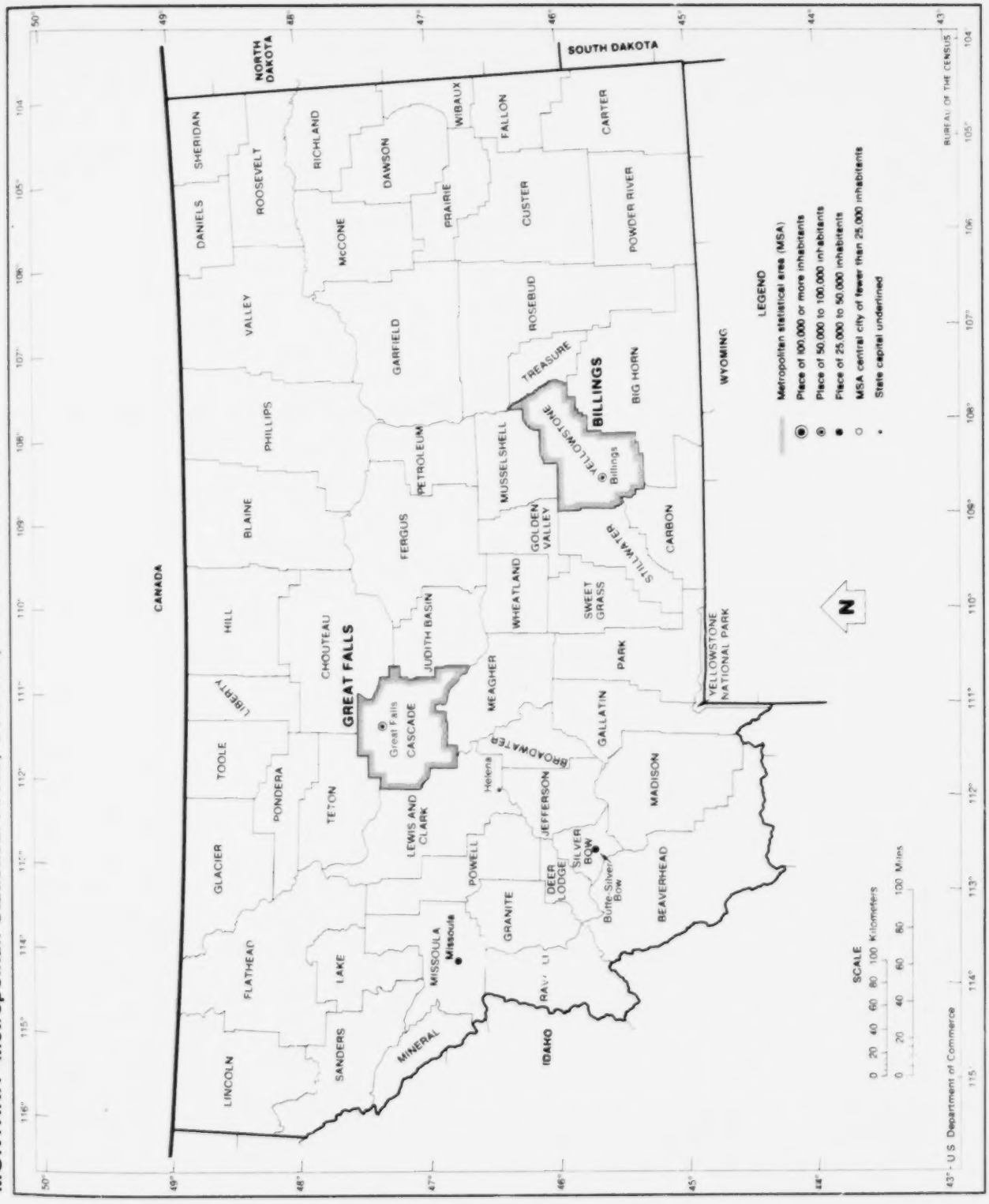
MONTANA - Metropolitan Statistical Areas, Counties, and Selected Places
CANADA
NORTH DAKOTA
SOUTH DAKOTA
WYOMING
IDAHO
SHERIDAN
DANIELS
ROOSEVELT
RICHLAND
DAWSON
WIBAUX
FALLON
CARTER
McCONE
PRAIRIE
CUSTER
POWDER RIVER
VALLEY
GARFIELD
ROSEBUD
TREASURE
BIG HORN
PHILLIPS
PETROLEUM
MUSSELSHELL
YELLOWSTONE
BILLINGS
Billings
BLAINE
FERGUS
GOLDEN VALLEY
STILLWATER
CARBON
HILL
CHOUTEAU
JUDITH BASIN
WHEATLAND
SWEET GRASS
LIBERTY
GREAT FALLS
Great Falls
CASCADE
MEAGHER
PARK
YELLOWSTONE NATIONAL PARK
TOOLE
BROADWATER
GALLATIN
PONDERA
TETON
Helena
JEFFERSON
MADISON
GLACIER
LEWIS AND CLARK
POWELL
SILVER BOW
Butte-Silver Bow
DEER LODGE
BEAVERHEAD
FLATHEAD
LAKE
GRANITE
Missoula
MISSOULA
LINCOLN
SANDERS
MINERAL
N
LEGEND
Metropolitan statistical area (MSA)
Place of 100,000 or more inhabitants
Place of 50,000 to 100,000 inhabitants
Place of 25,000 to 50,000 inhabitants
MSA central city of fewer than 25,000 inhabitants
State capital underlined
SCALE
0 20 40 60 80 100 Kilometers
0 20 40 60 80 100 Miles
U.S. Department of Commerce
BUREAU OF THE CENSUS

Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1987	398	60	5.7	163.4	4.1	8.2	107.7	1 167.1	383.3	1 431.7	118.6
1982	[1]630	(NA)	8.5	213.7	6.5	13.5	159.3	1 694.9	756.5	2 026.1	425.2
1977	366	46	5.9	90.4	4.7	9.2	72.0	560.2	317.8	713.2	164.7
1972	276	42	5.6	55.9	4.6	9.6	46.2	169.1	157.2	289.2	37.1

[1]Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1987											1982	
			Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees[2] (1,000)	Value added by mining (million dollars)
		E[1]	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries	–	**398**	**60**	**5.7**	**163.4**	**4.1**	**8.2**	**107.7**	**1 167.1**	**383.3**	**1 431.7**	**118.6**	**8.5**	**1 694.9**
10	**Metal mining**	–	**44**	**11**	**1.7**	**45.0**	**1.4**	**2.9**	**37.5**	**196.3**	**135.1**	**291.6**	**39.8**	**1.5**	**104.1**
102	Copper ores	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
1021	Copper ores	–	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
104	Gold and silver ores	–	23	5	.8	22.0	.7	1.4	18.2	110.7	70.9	166.1	15.5	CC	(D)
1041	Gold ores	–	18	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
1044	Silver ores	–	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
108	Metal mining services	–	13	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1081	Metal mining services	–	13	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores	–	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1099	Miscellaneous metal ores, n.e.c.	–	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	**Coal mining**	–	**12**	**6**	**1.3**	**48.9**	**.7**	**1.4**	**27.3**	**445.8**	**71.6**	**510.1**	**7.4**	**1.2**	**349.1**
122	Bituminous coal and lignite mining	–	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
1221	Bituminous coal and lignite surface mining	–	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	**Oil and gas extraction**	E1	**307**	**33**	**2.0**	**52.4**	**1.4**	**2.8**	**31.2**	**480.3**	**152.6**	**568.5**	**64.4**	**5.2**	**1 207.5**
131	Crude petroleum and natural gas	E1	127	10	.9	28.5	.5	.9	12.4	427.0	113.3	480.6	59.7	1.4	1 000.4
1311	Crude petroleum and natural gas	E1	127	10	.9	28.5	.5	.9	12.4	427.0	113.3	480.6	59.7	1.4	1 000.4
138	Oil and gas field services	E2	176	22	1.1	22.7	.9	1.9	17.9	46.8	(D)	64.4	(D)	FF	(D)
1381	Drilling oil and gas wells	–	30	6	.4	7.1	.3	.6	6.1	14.1	6.8	19.7	1.2	1.3	74.1
1382	Oil and gas field exploration services	E3	49	4	.2	4.3	.2	.4	3.1	8.5	(D)	12.5	(D)	EE	(D)
1389	Oil and gas field services, n.e.c.	E3	97	10	.5	11.4	.4	.9	8.7	24.2	9.6	32.2	1.6	1.4	73.0
14	**Nonmetallic minerals, except fuels**	E1	**35**	**10**	**.7**	**17.0**	**.5**	**1.0**	**11.8**	**44.7**	**23.9**	**61.6**	**7.0**	**.6**	**34.2**
144	Sand and gravel	E2	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining	E6	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
1475	Phosphate rock	E6	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
149	Miscellaneous nonmetallic minerals, except fuels	–	9	5	.4	10.6	.3	.7	7.4	32.7	14.9	44.4	3.2	.4	22.0
1499	Miscellaneous nonmetallic minerals, except fuels	–	9	5	.4	10.6	.3	.7	7.4	32.7	14.9	44.4	3.2	.4	22.0

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1 – 10 to 19 percent; E2 – 20 to 29 percent; E3 – 30 to 39 percent; E4 – 40 to 49 percent; E5 – 50 to 59 percent; E6 – 60 to 69 percent; E7 – 70 to 79 percent; E8 – 80 to 89 percent; E9 – 90 percent or more.

[2]General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA – 100 to 249 employees; BB – 250 to 499 employees; CC – 500 to 999 employees; EE – 1,000 to 2,499 employees; FF – 2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. F
meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity (1,000 s ton
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	4	(D)	(D)	(D)	(

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonpr duct estab lishmen
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]
	ALL INDUSTRIES												
	Establishments number	398	391	137	5	10	122	29	4	25	-	4	221
	Employees 1,000	5.7	(D)	1.1	(D)	(D)	9	2.9	.7	2.2	-	(Z)	(D)
	Value added in mining mil dol	1 167.1	(D)	436.1	(D)	8.4	(D)	643.6	(D)	(D)	-	6.4	(D)
10	**METAL MINING**												
	Establishments number	44	42	5	4	1	-	8	3	5	-	-	29
	Employees 1,000	1.7	(D)	(Z)	(D)	(D)	-	(D)	(D)	7	-	-	(D)
	Value added in mining mil dol	196.3	(D)	.3	(D)	(D)	-	(D)	(D)	104.1	-	-	(D)
101	IRON ORES												
	Establishments number	1	1	1	-	1	-	-	-	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-
	Value added in mining mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-
102	COPPER ORES												
	Establishments number	1	1	-	-	-	-	1	-	1	-	-	-
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-
	Value added in mining mil dol	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-
104	GOLD AND SILVER ORES												
	Establishments number	23	21	3	3	-	-	6	2	4	-	-	12
	Employees 1,000	.9	(D)	(D)	(D)	-	-	(D)	(D)	(D)	-	-	1.0
	Value added in mining mil dol	110.7	(D)	(D)	(D)	-	-	(D)	(D)	(D)	-	-	(D)
108	METAL MINING SERVICES												
	Establishments number	13	13	-	-	-	-	-	-	-	-	-	13
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)
	Value added in mining mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)
109	MISCELLANEOUS METAL ORES												
	Establishments number	6	6	1	1	-	-	1	1	-	-	-	4
	Employees 1,000	(D)	(D)	(D)	(D)	-	-	(D)	(D)	-	-	-	(D)
	Value added in mining mil dol	(D)	(D)	(D)	(D)	-	-	(D)	(D)	-	-	-	(D)

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
12	**COAL MINING**												
	Establishments number	12	12	3	-	3	-	6	-	6	-	-	3	-
	Employees 1,000	1.3	1.3	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	-
	Value added in mining mil dol	445.8	445.8	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	-
122	BITUMINOUS COAL AND LIGNITE MINING												
	Establishments number	11	11	3	-	3	-	6	-	6	-	-	2	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	-
	Value added in mining mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
124	COAL MINING SERVICES												
	Establishments number	1	1	-	-	-	-	-	-	-	-	-	1	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
13	**OIL AND GAS EXTRACTION**												
	Establishments number	307	303	122	-	-	122	-	-	-	-	4	177	4
	Employees 1,000	2.0	2.0	.9	-	-	.9	-	-	-	-	(Z)	1.1	-
	Value added in mining mil dol	480.3	(D)	(D)	-	-	(D)	-	-	-	-	6.4	48.8	(D)
131	CRUDE PETROLEUM AND NATURAL GAS												
	Establishments number	127	123	122	-	-	122	-	-	-	-	-	1	4
	Employees 1,000	.9	.9	.9	-	-	.9	-	-	-	-	-	(Z)	-
	Value added in mining mil dol	427.0	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)
132	NATURAL GAS LIQUIDS												
	Establishments number	4	4	-	-	-	-	-	-	-	-	4	-	-
	Employees 1,000	(Z)	(Z)	-	-	-	-	-	-	-	-	(Z)	-	-
	Value added in mining mil dol	6.4	6.4	-	-	-	-	-	-	-	-	6.4	-	-
138	OIL AND GAS FIELD SERVICES												
	Establishments number	176	176	-	-	-	-	-	-	-	-	-	176	-
	Employees 1,000	1.1	1.1	-	-	-	-	-	-	-	-	-	1.1	-
	Value added in mining mil dol	46.8	46.8	-	-	-	-	-	-	-	-	-	46.8	-
14	**NONMETALLIC MINERALS, EXCEPT FUELS**												
	Establishments number	35	34	7	1	6	-	15	1	14	-	-	12	1
	Employees 1,000	.7	.7	(D)	(D)	(D)	-	.5	(D)	(D)	-	-	(D)	-
	Value added in mining mil dol	44.7	44.8	(D)	(D)	(D)	-	35.2	(D)	(D)	-	-	(D)	(Z)
141	DIMENSION STONE												
	Establishments number	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees 1,000	-	-	-	-	-	-	-	-	-	-	-	-	-
	Value added in mining mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP												
	Establishments number	3	3	-	-	-	-	3	-	3	-	-	-	-
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining mil dol	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonpro ducing estab lishmen
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
14	**NONMETALLIC MINERALS, EXCEPT FUELS** —Con.												
144	SAND AND GRAVEL												
	Establishments ..... number	14	14	-	-	-	-	6	-	6	-	-	8
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	(D)
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	(D)
145	CLAY, CERAMIC, AND REFRACTORY MINERALS												
	Establishments ..... number	1	1	-	-	-	-	-	-	-	-	-	1
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)
	Value added in mining ..... mil dol	-	-	-	-	-	-	-	-	-	-	-	-
147	CHEMICAL AND FERTILIZER MINERAL MINING												
	Establishments ..... number	4	4	3	-	3	-	1	1	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	(D)	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	(D)	-	-	-	-
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS												
	Establishments ..... number	3	3	-	-	-	-	-	-	-	-	-	3
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	-
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS												
	Establishments ..... number	9	8	3	1	2	-	5	-	5	-	-	-
	Employees 1,000	.4	.4	(D)	(D)	(D)	-	(D)	-	(D)	-	-	-
	Value added in mining ..... mil dol	32.7	32.7	(D)	(D)	(D)	-	(D)	-	(D)	-	-	-

[1]Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item		1987
Establishments during year	number	398
With 0 to 19 employees	do.	338
With 20 to 99 employees	do.	46
With 100 employees or more	do.	14
All employees:		
Average for year	1,000	5.7
Payroll for year	mil dol.	163.4
Production, development, and exploration workers:		
Average for year	1,000	4.1
March	do.	3.8
May	do.	4.1
August	do.	4.3
November	do.	4.3
Hours:	millions	8.2
January to March	do.	1.9
April to June	do.	2.0
July to September	do.	2.1
October to December	do.	2.2
Wages	mil dol.	107.7
Supplemental labor costs not included in payroll	do.	43.4
Legally required expenditures, including Social Security contributions	do.	21.3
Payments for voluntary programs	do.	22.1
Value added by mining	do.	1 167.1
Inventories, beginning of 1987	do.	72.8
Inventories, end of 1987	do.	77.2

Item		1987
Cost of supplies	mil dol.	383.3
Supplies used, minerals received, and purchased machinery installed	do.	204.5
Resales	do.	(D)
Purchased fuels consumed	do.	19.1
Purchased electric energy:		
Quantity	mil kWh	1 184.6
Cost	mil dol.	38.8
Electric energy generated less sold	mil kWh	26.2
Contract work	mil dol.	(D)
Cost of purchased communication services	do.	9
Value of shipments and receipts	do.	1 431.7
Value of resales	do.	(D)
Capital expenditures during year (except land and mineral rights)	do.	118.6
New capital expenditures during year	do.	59.4
Buildings and other structures, except land	do.	9.9
Machinery and equipment	do.	49.5
Used capital expenditures during year	do.	8.5
Buildings and other structures, except land	do.	1.8
Machinery and equipment	do.	6.8
Mineral exploration and development[1]	do.	50.7
Rental payments during year	do.	23.8
Buildings and other structures, except land	do.	5.1
Machinery and equipment	do.	18.8
Expensed mineral exploration, development, land, and rights[1,2]	do.	77.6

[1]Excludes data for mining services industries and natural gas liquids industries where data were not collected.
[2]Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1987

Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Montana	-	**398**	**60**	**5.7**	**163.4**	**4.1**	**8.2**	**107.7**	**1 167.1**	**383.3**	**1 431.7**	**118.6**
	Beaverhead County	-	**4**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Big Horn County	-	**2**	**2**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
12	**Coal mining**	-	**2**	**2**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
122	Bituminous coal and lignite mining	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	-	**5**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**4**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
104	Gold and silver ores	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lincoln County	-	**3**	**2**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**2**	**1**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
104	Gold and silver ores	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	**Nonmetallic minerals, except fuels**	-	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
19	Miscellaneous nonmetallic minerals, except fuels	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Madison County	-	**8**	**3**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
1	**Metal mining**	-	**2**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Gold and silver ores	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1	**Nonmetallic minerals, except fuels**	-	**5**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Miscellaneous nonmetallic minerals, except fuels	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Powell County	-	**2**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
	Rosebud County	-	**3**	**3**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
12	**Coal mining**	-	**3**	**3**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
122	Bituminous coal and lignite mining	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Silver Bow County	-	**7**	**2**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**2**	**1**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
102	Copper ores	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Stillwater County	-	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
109	Miscellaneous metal ores	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1987—Con.

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Montana	**398**	**44**	**12**	**307**	**35**
0 to 4 employees	251	24	2	207	18
5 to 9 employees	55	2	3	45	5
10 to 19 employees	32	7	1	22	2
20 to 49 employees	37	4	-	28	5
50 to 99 employees	9	1	2	3	3
100 to 249 employees	10	4	2	2	2
250 to 499 employees	4	2	2	-	-
Beaverhead	**4**	**3**	-	-	1
0 to 19 employees	3	3	-	-	-
20 to 99 employees	1	-	-	-	1
Big Horn	**2**	-	**2**	-	-
100 to 249 employees	1	-	1	-	-
250 employees or more	1	-	1	-	-
Broadwater	**3**	**2**	-	-	1
0 to 19 employees	2	2	-	-	-
20 to 99 employees	1	-	-	-	1
Dawson	**1**	-	-	-	1
0 to 19 employees	1	-	-	-	1
Deer Lodge	**3**	**1**	-	-	1
0 to 19 employees	2	1	-	-	1
Fallon	**1**	-	-	1	-
0 to 19 employees	1	-	-	1	-
Fergus	**3**	-	-	-	3
0 to 19 employees	3	-	-	-	3
Flathead	**3**	**1**	-	-	2
0 to 19 employees	2	1	-	-	1
20 to 99 employees	1	-	-	-	1
Gallatin	**3**	**1**	-	-	2
0 to 19 employees	3	1	-	-	2
Glacier	**1**	-	-	1	-
20 to 99 employees	1	-	-	1	-
Granite	**2**	**2**	-	-	-
20 to 99 employees	2	2	-	-	-
Hill	**1**	-	-	-	1
0 to 19 employees	1	-	-	-	1
Jefferson	**5**	**4**	-	-	1
0 to 19 employees	4	3	-	-	1
100 to 249 employees	1	1	-	-	-
Lewis and Clark	**4**	**4**	-	-	-
0 to 19 employees	4	4	-	-	-
Montana—Con.					
Lincoln	**3**	**2**	-	-	1
0 to 19 employees	1	1	-	-	-
100 to 249 employees	1	-	-	-	1
250 employees or more	1	1	-	-	-
Madison	**8**	**2**	**1**	-	5
0 to 19 employees	5	1	1	-	3
20 to 99 employees	1	-	-	-	1
100 to 249 employees	2	1	-	-	1
Meagher	**1**	**1**	-	-	-
0 to 19 employees	1	1	-	-	-
Mineral	**1**	**1**	-	-	-
0 to 19 employees	1	1	-	-	-
Missoula	**4**	-	-	-	4
0 to 19 employees	3	-	-	-	3
20 to 99 employees	1	-	-	-	1
Musselshell	**1**	-	**1**	-	-
0 to 19 employees	1	-	1	-	-
Park	**1**	-	-	-	1
0 to 19 employees	1	-	-	-	1
Phillips	**1**	**1**	-	-	-
20 to 99 employees	1	1	-	-	-
Powell	**2**	**1**	-	-	1
0 to 19 employees	1	1	-	-	-
20 to 99 employees	1	-	-	-	1
Richland	**3**	-	**1**	-	**2**
0 to 19 employees	3	-	1	-	2
Rosebud	**3**	-	-	**3**	-
20 to 99 employees	1	-	-	1	-
100 to 249 employees	1	-	-	1	-
250 employees or more	1	-	-	1	-
Sanders	**1**	**1**	-	-	-
0 to 19 employees	1	1	-	-	-
Silver Bow	**7**	**2**	**2**	-	3
0 to 19 employees	5	1	1	-	3
20 to 99 employees	1	-	1	-	-
250 employees or more	1	1	-	-	-
Stillwater	**1**	**1**	-	-	-
100 to 249 employees	1	1	-	-	-
Yellowstone	**6**	**1**	**1**	-	4
0 to 19 employees	4	1	1	-	2
20 to 99 employees	2	-	-	-	2
Undistributed	**320**	**13**	**1**	**303**	**3**
0 to 19 employees	285	10	1	271	3
20 to 99 employees	32	2	-	30	-
100 to 249 employees	3	1	-	2	-

[1]Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 264 establishments classified in mineral industries in Nevada was $1.5 billion in 1987, or 1 percent of the Nation's total, compared to $608.0 million in 1982. Value added by mining amounted to $1.2 billion in 1987, and payroll in mining amounted to $231.8 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into cons eration the inflation that has occurred.

Mineral industries employment in Nevada was 7.6 th sand in 1987, or 1 percent of the Nation's total. This is increase of 15 percent from 1982. The metal mini industry led all other mineral industries in the Sta accounting for approximately 80 percent of the Stat mineral industries employment.

State Map

NEVADA - Metropolitan Statistical Areas, Counties, Independent City, and Other Selected Places

Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1987	264	74	7.6	231.8	6.2	12.9	179.3	1 177.5	643.7	1 468.6	352.5
1982	1293	(NA)	6.6	154.9	5.2	10.9	119.0	467.6	264.4	608.0	124.1
1977	189	31	4.1	61.8	3.1	5.9	44.4	152.4	110.2	229.8	32.9
1972	143	18	3.2	32.5	2.4	5.1	23.7	103.5	56.4	156.0	5.9

[1]Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1987											1982	
			Establishments during year		All employees		Production, development, and exploration workers							
		E[1]	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees[2] (1,000)	Value added by mining (million dollars)
	All industries	-	**264**	**74**	**7.6**	**231.8**	**6.2**	**12.9**	**179.3**	**1 177.5**	**643.7**	**1 468.6**	**352.5**	**6.6**	**467.6**
10	**Metal mining**	-	**142**	**53**	**6.1**	**192.4**	**5.0**	**10.6**	**151.5**	**1 050.6**	**582.6**	**1 293.1**	**340.0**	**3.6**	**274.7**
104	Gold and silver ores	-	90	39	5.4	171.5	4.4	9.3	134.1	1 002.1	551.8	1 222.0	331.9	2.8	236.1
1041	Gold ores	-	83	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
1044	Silver ores	-	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
108	Metal mining services	-	33	10	.5	16.2	.5	1.0	13.8	45.4	24.0	62.2	7.2	.3	10.2
1081	Metal mining services	-	33	10	.5	16.2	.5	1.0	13.8	45.4	24.0	62.2	7.2	.3	10.2
109	Miscellaneous metal ores	E3	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	11.4
13	**Oil and gas extraction**	**E2**	**69**	**5**	**.5**	**13.0**	**.3**	**.8**	**8.8**	**54.7**	**25.4**	**74.9**	**5.3**	**1.5**	**106.9**
138	Oil and gas field services	E1	45	5	.4	10.5	.3	.7	7.3	23.0	10.1	31.4	1.6	1.4	85.0
1382	Oil and gas field exploration services	E1	16	2	.2	4.8	.1	.3	3.2	7.8	3.1	10.3	.5	.3	15.4
1389	Oil and gas field services, n.e.c.	-	19	2	.2	4.1	.1	.3	3.0	12.3	5.6	17.1	.8	.9	61.7
14	**Nonmetallic minerals, except fuels**	**E1**	**53**	**16**	**1.0**	**26.4**	**.8**	**1.5**	**19.0**	**72.1**	**35.7**	**100.6**	**7.2**	**1.5**	**85.8**
144	Sand and gravel	E1	15	5	.4	6.8	.3	.5	5.7	22.7	9.3	29.3	2.7	.2	13.9
1442	Construction sand and gravel	E1	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
145	Clay, ceramic, and refractory minerals	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
1459	Clay, ceramic, and refractory minerals, n.e.c.	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
148	Nonmetallic minerals services, except fuels	E1	6	3	.1	5.3	.1	.2	3.9	16.3	4.5	18.3	2.4	(NA)	(NA)
1481	Nonmetallic minerals services, except fuels	E1	6	3	.1	5.3	.1	.2	3.9	16.3	4.5	18.3	2.4	(NA)	(NA)
149	Miscellaneous nonmetallic minerals, except fuels	-	14	4	.3	6.9	.2	.5	4.9	24.1	14.7	37.0	1.8	AA	(D)
1499	Miscellaneous nonmetallic minerals, except fuels	-	14	4	.3	6.9	.2	.5	4.9	24.1	14.7	37.0	1.8	AA	(D)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	6	.1	1.6	1.9	(X)
Crushed and broken stone, including riprap	3	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
	ALL INDUSTRIES												
	Establishments ..... number	264	223	33	7	11	15	66	2	61	3	-	124	41
	Employees 1,000	7.6	7.0	.1	(D)	(Z)	(D)	5.4	(D)	(D)	(D)	-	1.5	.6
	Value added in mining ..... mil dol	1 177.5	1 196.2	46.2	(D)	4.1	(D)	1 045.5	(D)	(D)	(D)	-	104.5	-18.7
10	**METAL MINING**													
	Establishments ..... number	142	111	12	6	6	-	34	1	31	2	-	65	31
	Employees 1,000	6.1	5.6	.1	(Z)	(Z)	-	4.6	(D)	(D)	(D)	-	.9	.5
	Value added in mining ..... mil dol	1 050.6	1 060.6	5.1	(D)	(D)	-	993.6	(D)	(D)	(D)	-	62.0	-10.0
101	IRON ORES													
	Establishments ..... number	3	3	3	-	3	-	-	-	-	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
102	COPPER ORES													
	Establishments ..... number	2	2	1	-	1	-	-	-	-	-	-	1	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
103	LEAD AND ZINC ORES													
	Establishments ..... number	2	1	1	1	-	-	-	-	-	-	-	-	1
	Employees 1,000	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	(D)
104	GOLD AND SILVER ORES													
	Establishments ..... number	90	86	6	5	1	-	34	1	31	2	-	26	24
	Employees 1,000	5.4	5.0	(D)	(D)	(D)	-	4.6	(D)	(D)	(D)	-	(D)	.4
	Value added in mining ..... mil dol	1 002.1	1 010.6	(D)	(D)	(D)	-	993.6	(D)	(D)	(D)	-	(D)	-8.5
106	FERROALLOY ORES, EXCEPT VANADIUM													
	Establishments ..... number	4	3	1	-	1	-	-	-	-	-	-	2	1
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	(D)	(D)
108	METAL MINING SERVICES													
	Establishments ..... number	33	33	-	-	-	-	-	-	-	-	-	33	-
	Employees 1,000	.5	.5	-	-	-	-	-	-	-	-	-	.5	-
	Value added in mining ..... mil dol	45.4	45.4	-	-	-	-	-	-	-	-	-	45.4	-
109	MISCELLANEOUS METAL ORES													
	Establishments ..... number	8	3	-	-	-	-	-	-	-	-	-	3	5
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
13	**OIL AND GAS EXTRACTION**													
	Establishments ..... number	69	62	15	-	-	15	-	-	-	-	-	47	7
	Employees 1,000	.5	(D)	(D)	-	-	(D)	-	-	-	-	-	.4	(D)
	Value added in mining ..... mil dol	54.7	(D)	(D)	-	-	(D)	-	-	-	-	-	23.0	(D)
131	CRUDE PETROLEUM AND NATURAL GAS													
	Establishments ..... number	24	17	15	-	-	15	-	-	-	-	-	2	7
	Employees 1,000	.1	(D)	(D)	-	-	(D)	-	-	-	-	-	(Z)	(D)
	Value added in mining ..... mil dol	31.7	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
13	**OIL AND GAS EXTRACTION**—Con.													
138	OIL AND GAS FIELD SERVICES													
	Establishments ..... number	45	45	-	-	-	-	-	-	-	-	-	45	-
	Employees 1,000	.4	.4	-	-	-	-	-	-	-	-	-	.4	-
	Value added in mining ..... mil dol	23.0	23.0	-	-	-	-	-	-	-	-	-	23.0	-
14	**NONMETALLIC MINERALS, EXCEPT FUELS**													
	Establishments ..... number	53	50	6	1	5	-	32	1	30	1	-	12	3
	Employees 1,000	1.0	(D)	(D)	(D)	(Z)	-	.8	(D)	(D)	(D)	-	.2	(D)
	Value added in mining ..... mil dol	72.1	(D)	(D)	(D)	(D)	-	51.9	(D)	(D)	(D)	-	19.6	(D)
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP													
	Establishments ..... number	3	3	-	-	-	-	3	-	3	-	-	-	-
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
144	SAND AND GRAVEL													
	Establishments ..... number	15	15	-	-	-	-	10	-	10	-	-	5	-
	Employees 1,000	.4	.4	-	-	-	-	.3	-	.3	-	-	.1	-
	Value added in mining ..... mil dol	22.7	22.7	-	-	-	-	19.3	-	19.3	-	-	3.3	-
145	CLAY, CERAMIC, AND REFRACTORY MINERALS													
	Establishments ..... number	6	5	2	-	2	-	3	-	2	1	-	-	1
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	-	-	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	-	-	(D)
147	CHEMICAL AND FERTILIZER MINERAL MINING													
	Establishments ..... number	9	8	4	1	3	-	3	-	3	-	-	1	1
	Employees 1,000	.1	(D)	(D)	(D)	(Z)	-	(Z)	-	(Z)	-	-	(Z)	(D)
	Value added in mining ..... mil dol	3.1	(D)	(D)	(D)	(D)	-	2.4	-	2.4	-	-	-	(D)
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS													
	Establishments ..... number	6	6	-	-	-	-	-	-	-	-	-	6	-
	Employees 1,000	.1	.1	-	-	-	-	-	-	-	-	-	.1	-
	Value added in mining ..... mil dol	16.3	16.3	-	-	-	-	-	-	-	-	-	16.3	-
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ..... number	14	13	-	-	-	-	13	1	12	-	-	-	1
	Employees 1,000	.3	(D)	-	-	-	-	(D)	(D)	(D)	-	-	-	(D)
	Value added in mining ..... mil dol	24.1	(D)	-	-	-	-	(D)	(D)	(D)	-	-	-	(D)

[1]Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item		1987	Item		19
Establishments during year	number	264	Cost of supplies	mil dol	643.
With 0 to 19 employees	do	190	Supplies used, minerals received, and purchased machinery installed	do	441.
With 20 to 99 employees	do	54	Resales	do	2.
With 100 employees or more	do	20	Purchased fuels consumed	do	39.
All employees:			Purchased electric energy:		
Average for year	1,000	7.6	Quantity	mil kWh	661.
Payroll for year	mil dol	231.8	Cost	mil dol	30.
Production, development, and exploration workers:			Electric energy generated less sold	mil kWh	19.
Average for year	1,000	6.2	Contract work	mil dol	129.
March	do	5.6	Cost of purchased communication services	do	1
May	do	5.9	Value of shipments and receipts	do	1 488.
August	do	6.3	Value of resales	do	3.
November	do	6.8	Capital expenditures during year (except land and mineral rights)	do	352.
Hours	millions	12.9	New capital expenditures during year	do	257.
January to March	do	2.9	Buildings and other structures, except land	do	23.
April to June	do	3.1	Machinery and equipment	do	234.
July to September	do	3.4	Used capital expenditures during year	do	17.
October to December	do	3.5	Buildings and other structures, except land	do	1.
Wages	mil dol	179.3	Machinery and equipment	do	16.
Supplemental labor costs not included in payroll	do	54.3	Mineral exploration and development[1]	do	76.
Legally required expenditures, including Social Security contributions	do	22.8	Rental payments during year	do	8.
Payments for voluntary programs	do	31.5	Buildings and other structures, except land	do	1.
Value added by mining	do	1 177.5	Machinery and equipment	do	7.
Inventories, beginning of 1987	do	118.	Expensed mineral exploration, development, land, and rights[1,2]	do	29.
Inventories, end of 1987	do	144.3			

[1]Excludes data for mining services industries and natural gas liquids industries where data were not collected.
[2]Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expend-itures (million dollars)
			Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Nevada	-	**264**	**74**	**7.6**	**231.8**	**6.2**	**12.9**	**179.3**	**1 177.5**	**643.7**	**1 488.6**	**352.5**
	Clark County	E1	**23**	**4**	**.3**	**5.9**	**.3**	**.4**	**4.8**	**18.0**	**10.4**	**25.5**	**3.0**
14	**Nonmetallic minerals, except fuels**	-	12	3	.3	4.2	.2	.3	3.6	16.7	(D)	21.3	(D)
144	Sand and gravel	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Elko County	-	**6**	**3**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Eureka County	-	7	5	1.2	37.0	1.1	2.2	33.1	263.5	(D)	325.0	(D)
10	**Metal mining**	-	7	5	1.2	37.0	1.1	2.2	33.1	263.5	(D)	325.0	(D)
104	Gold and silver ores	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Humboldt County	-	**14**	**7**	**.6**	**17.8**	**.5**	**.8**	**11.9**	**164.0**	**73.5**	**129.4**	**108.**
10	**Metal mining**	-	12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	-	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lander County	-	7	5	.6	17.7	.6	1.4	16.9	130.9	60.2	179.9	11.
10	**Metal mining**	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mineral County	-	7	2	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Nye County	-	**12**	**8**	**1.0**	**29.8**	**.7**	**1.3**	**17.5**	**171.6**	**75.6**	**209.0**	**38.**
10	**Metal mining**	-	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	**Nonmetallic minerals, except fuels**	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pershing County	-	**8**	**4**	**.5**	**17.3**	**.4**	**1.0**	**13.6**	**84.0**	**55.2**	**101.1**	**8.**
10	**Metal mining**	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	**Nonmetallic minerals, except fuels**	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals, except fuels	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1987—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year: Total (number)	Establishments during year: With 20 employees or more (number)	All employees: Number[2] (1,000)	All employees: Payroll (million dollars)	Production, development, and exploration workers: Number (1,000)	Production, development, and exploration workers: Hours (millions)	Production, development, and exploration workers: Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Nevada—Con.												
	Washoe County	**E3**	**46**	**12**	**.8**	**23.9**	**.5**	**1.0**	**15.6**	**29.8**	**37.9**	**40.7**	**27.0**
10	**Metal mining**	**E3**	**34**	**8**	**.5**	**18.0**	**.4**	**.7**	**12.4**	**18.6**	**31.3**	**23.6**	**26.3**
104	Gold and silver ores	E3	29	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	**Nonmetallic minerals, except fuels**	**E2**	**12**	**4**	**.2**	**5.8**	**.1**	**.3**	**3.3**	**11.3**	**6.6**	**17.1**	**.7**
	White Pine County	**E2**	**6**	**3**	**.4**	**13.2**	**.3**	**.7**	**11.1**	**52.3**	**23.7**	**65.1**	**10.9**
10	**Metal mining**	**E2**	**6**	**3**	**.4**	**13.2**	**.3**	**.7**	**11.1**	**52.3**	**23.7**	**65.1**	**10.9**
104	Gold and silver ores	E2	6	3	.4	13.2	.3	.7	11.1	52.3	23.7	65.1	10.9

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Nevada	**264**	**142**	**-**	**69**	**53**
0 to 4 employees	112	50	-	44	18
5 to 9 employees	47	19	-	15	13
10 to 19 employees	31	20	-	5	6
20 to 49 employees	37	25	-	3	9
50 to 99 employees	17	10	-	2	5
100 to 249 employees	15	13	-	-	2
250 to 499 employees	4	4	-	-	-
500 to 999 employees	1	1	-	-	-
Churchill	**4**	**1**	**-**	**-**	**3**
0 to 19 employees	4	1	-	-	3
Clark	**23**	**11**	**-**	**-**	**12**
0 to 19 employees	19	10	-	-	9
20 to 99 employees	3	1	-	-	2
100 to 249 employees	1	-	-	-	1
Douglas	**1**	**-**	**-**	**-**	**1**
0 to 19 employees	1	-	-	-	1
Elko	**6**	**6**	**-**	**-**	**-**
0 to 19 employees	3	3	-	-	-
20 to 99 employees	1	1	-	-	-
100 to 249 employees	1	1	-	-	-
250 employees or more	1	1	-	-	-
Esmeralda	**2**	**1**	**-**	**-**	**1**
0 to 19 employees	1	-	-	-	1
20 to 99 employees	1	1	-	-	-
Eureka	**7**	**7**	**-**	**-**	**-**
0 to 19 employees	2	2	-	-	-
20 to 99 employees	3	3	-	-	-
100 to 249 employees	1	1	-	-	-
250 employees or more	1	1	-	-	-
Humboldt	**14**	**12**	**-**	**-**	**2**
0 to 19 employees	7	5	-	-	2
20 to 99 employees	4	4	-	-	-
100 to 249 employees	3	3	-	-	-
Lander	**7**	**5**	**-**	**-**	**2**
0 to 19 employees	2	1	-	-	1
20 to 99 employees	4	3	-	-	1
250 employees or more	1	1	-	-	-
Nevada—Con.					
Lincoln	**2**	**1**	**-**	**-**	**1**
0 to 19 employees	2	1	-	-	1
Lyon	**6**	**2**	**-**	**-**	**4**
0 to 19 employees	5	2	-	-	3
20 to 99 employees	1	-	-	-	1
Mineral	**7**	**7**	**-**	**-**	**-**
0 to 19 employees	5	5	-	-	-
20 to 99 employees	1	1	-	-	-
100 to 249 employees	1	1	-	-	-
Nye	**12**	**6**	**-**	**-**	**6**
0 to 19 employees	4	-	-	-	4
20 to 99 employees	6	4	-	-	2
100 to 249 employees	1	1	-	-	-
250 employees or more	1	1	-	-	-
Pershing	**8**	**6**	**-**	**-**	**2**
0 to 19 employees	4	3	-	-	1
20 to 99 employees	2	2	-	-	-
100 to 249 employees	1	-	-	-	1
250 employees or more	1	1	-	-	-
Storey	**2**	**2**	**-**	**-**	**-**
0 to 19 employees	2	2	-	-	-
Washoe	**46**	**34**	**-**	**-**	**12**
0 to 19 employees	34	26	-	-	8
20 to 99 employees	10	6	-	-	4
100 to 249 employees	2	2	-	-	-
White Pine	**6**	**6**	**-**	**-**	**-**
0 to 19 employees	3	3	-	-	-
100 to 249 employees	3	3	-	-	-
Carson City (IC)	**3**	**2**	**-**	**-**	**1**
0 to 19 employees	2	2	-	-	-
20 to 99 employees	1	-	-	-	1
Undistributed	**108**	**33**	**-**	**69**	**6**
0 to 19 employees	90	23	-	64	3
20 to 99 employees	17	9	-	5	3
100 to 249 employees	1	1	-	-	-

[1]Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 752 establishments classified in mineral industries in New Mexico was $5.0 billion in 1987, or 3 percent of the Nation's total. This compares to $9.7 billion in 1982, when it was 4 percent of the Nation's total. Value added by mining amounted to $3.5 billion in 1987, and payroll in mining amounted to $437.7 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in New Mexico was 14.8 thousand in 1987, or 2 percent of the Nation's total. This is a decrease of 44 percent from 1982. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 63 percent of the State's mineral industries employment.

State Map

NEW MEXICO - Metropolitan Statistical Areas, Counties, and Selected Places

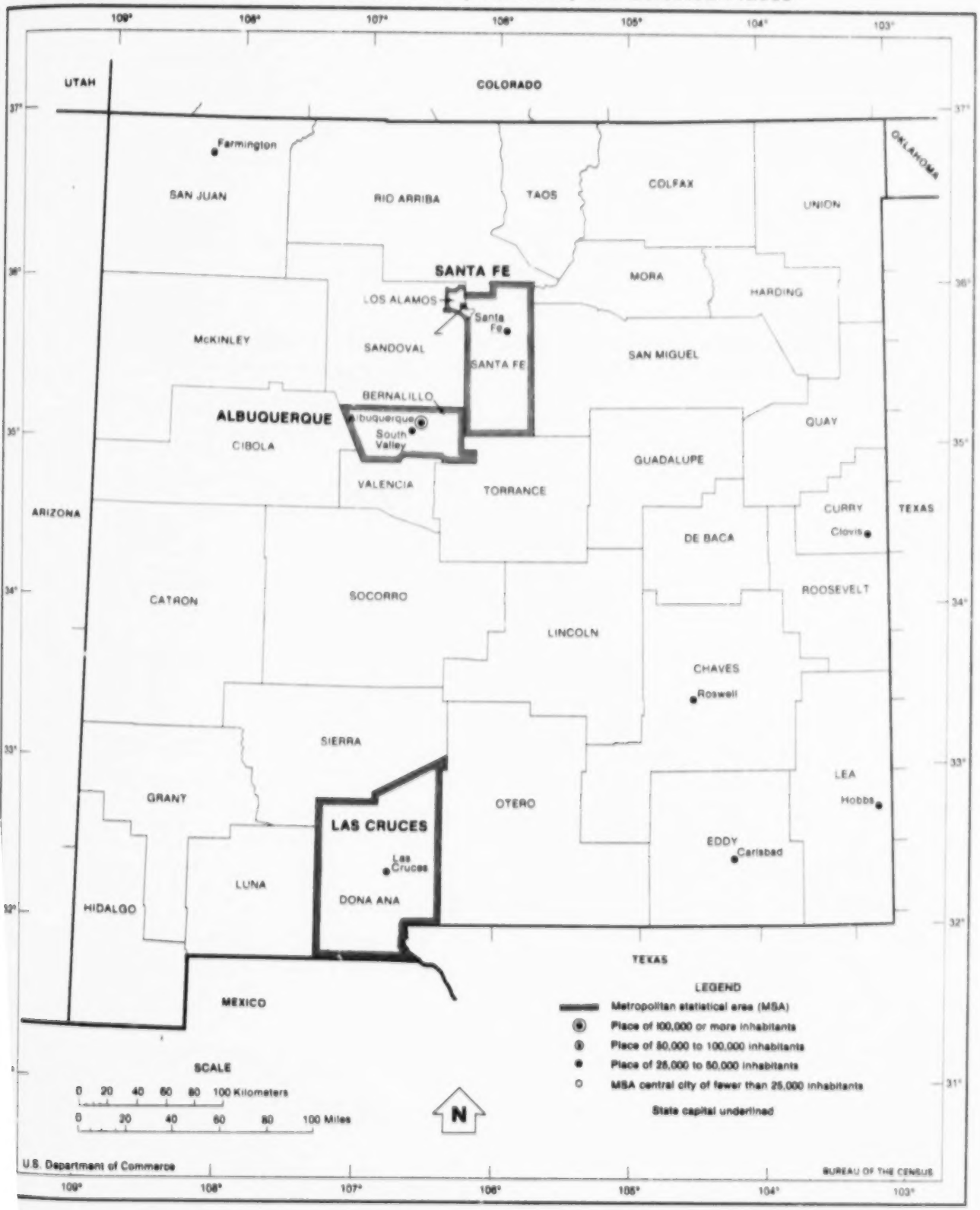

Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1987	752	150	14.8	437.7	10.6	22.4	301.7	3 539.1	1 869.7	4 981.5	427.3
1982	[1] 1 013	(NA)	26.6	660.0	20.5	43.4	497.1	7 126.7	3 979.8	9 683.3	1 423.3
1977	752	177	23.5	377.3	19.1	39.2	301.2	2 688.7	1 597.4	3 747.8	538.3
1972	579	135	16.2	160.2	13.2	27.3	123.7	957.8	550.9	1 333.4	175.3

[1]Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1987											1982	
			Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees[2] (1,000)	Value added by mining (million dollars)
		E[1]	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries	-	**752**	**150**	**14.8**	**437.7**	**10.6**	**22.4**	**301.7**	**3 539.1**	**1 869.7**	**4 981.5**	**427.3**	**26.6**	**7 126.7**
10	**Metal mining**	-	**43**	**8**	**1.8**	**55.5**	**1.5**	**3.2**	**47.5**	**251.6**	**214.4**	**452.6**	**13.4**	**5.2**	**223.8**
102	Copper ores	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	29.2
1021	Copper ores	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	29.2
109	Miscellaneous metal ores	-	13	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	156.3
1094	Uranium-radium-vanadium ores	-	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	156.3
12	**Coal mining**	-	**11**	**8**	**2.0**	**79.5**	**1.5**	**3.1**	**61.1**	**419.7**	**117.0**	**457.4**	**79.3**	**2.1**	**330.3**
122	Bituminous coal and lignite mining	-	9	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	330.0
1221	Bituminous coal and lignite surface mining	-	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1222	Bituminous coal underground mining	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	**Oil and gas extraction**	-	**640**	**120**	**9.3**	**255.8**	**6.2**	**13.1**	**155.6**	**2 732.8**	**1 469.7**	**3 877.6**	**324.9**	**16.4**	**6 442.3**
131	Crude petroleum and natural gas	-	250	29	3.7	123.3	1.6	3.2	52.5	2 270.4	475.5	2 490.2	255.8	4.4	5 130.5
1311	Crude petroleum and natural gas	-	250	29	3.7	123.3	1.6	3.2	52.5	2 270.4	475.5	2 490.2	255.8	4.4	5 130.5
132	Natural gas liquids	-	28	19	.9	28.3	.8	1.6	24.5	240.6	904.8	1 094.8	50.7	1.1	718.5
1321	Natural gas liquids	-	28	19	.9	28.3	.8	1.6	24.5	240.6	904.8	1 094.8	50.7	1.1	718.5
138	Oil and gas field services	E1	362	72	4.7	104.2	3.8	8.3	78.6	221.8	89.3	292.7	18.4	10.9	593.2
1381	Drilling oil and gas wells	-	62	23	1.4	32.4	1.3	2.7	26.8	86.2	26.6	86.8	5.9	3.7	221.1
1382	Oil and gas field exploration services	-	32	3	.3	9.3	.2	.5	6.2	12.4	6.5	18.0	.8	.7	29.9
1389	Oil and gas field services, n.e.c.	E2	268	46	3.0	62.5	2.3	5.2	45.5	143.3	56.2	187.8	11.7	6.5	342.2
14	**Nonmetallic minerals, except fuels**	-	**58**	**14**	**1.8**	**46.9**	**1.4**	**3.0**	**37.5**	**135.0**	**68.7**	**194.0**	**9.7**	**2.9**	**130.4**
142	Crushed and broken stone, including riprap	-	7	2	.1	3.8	.1	.3	3.1	13.8	8.2	19.6	2.4	(NA)	(NA)
1429	Crushed and broken stone, n.e.c.	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel	E2	26	2	.2	3.5	.2	.3	2.4	9.5	5.3	13.6	1.2	.1	3.1
1442	Construction sand and gravel	E2	26	2	.2	3.5	.2	.3	2.4	9.5	5.3	13.6	1.2	.1	3.1
147	Chemical and fertilizer mineral mining	-	10	5	1.2	35.3	1.0	2.1	28.9	99.6	49.0	143.3	5.3	2.6	117.1
1474	Potash, soda, and borate minerals	-	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	117.1
149	Miscellaneous nonmetallic minerals, except fuels	E1	9	3	.1	3.2	.1	.2	2.3	10.2	(D)	14.7	(D)	AA	(D)
1499	Miscellaneous nonmetallic minerals, except fuels	E1	9	3	.1	3.2	.1	.2	2.3	10.2	(D)	14.7	(D)	AA	(D)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity produced (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	10	(D)	(D)	(D)	0
Sand and gravel	8	1	1.1	.7	1 677

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments											Nonproducing establishments
				Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed[1]	
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
	ALL INDUSTRIES													
	Establishments number	752	737	266	11	15	240	36	5	29	2	26	409	15
	Employees 1,000	14.8	14.5	3.5	(D)	(D)	2.5	(D)	1.5	2.5	(D)	(D)	6.1	3
	Value added in mining mil dol	3 539.1	3 545.9	2 353.5	(D)	(D)	2 272.7	(D)	112.1	541.2	(D)	(D)	229.5	-6.7
10	**METAL MINING**													
	Establishments number	43	35	17	11	5	1	4	-	2	2	1	13	5
	Employees 1,000	1.8	1.7	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	(Z)	1
	Value added in mining mil dol	251.6	256.1	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	2.1	-6.5
101	IRON ORES													
	Establishments number	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees 1,000	-	-	-	-	-	-	-	-	-	-	-	-	-
	Value added in mining mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
102	COPPER ORES													
	Establishments number	9	9	6	1	4	1	2	-	2	-	1	-	-
	Employees 1,000	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	-	(D)	-	-
	Value added in mining mil dol	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(D)	-	(D)	-	-
100	LEAD AND ZINC ORES													
	Establishments number	2	2	2	2	-	-	-	-	-	-	-	-	-
	Employees 1,000	-	-	-	-	-	-	-	-	-	-	-	-	-
	Value added in mining mil dol	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	-	-
104	GOLD AND SILVER ORES													
	Establishments number	6	5	2	2	-	-	-	-	-	-	-	3	(D)
	Employees 1,000	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	(D)	(D)
	Value added in mining mil dol	(D)	(D)	(D)	(D)	-	-	-	-	-	-	-	(D)	(D)
106	FERROALLOY ORES, EXCEPT VANADIUM													
	Establishments number	3	1	-	-	-	-	-	-	-	-	-	1	2
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
	Value added in mining mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	(D)
108	METAL MINING SERVICES													
	Establishments number	9	9	-	-	-	-	-	-	-	-	-	9	-
	Employees 1,000	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining mil dol	1.0	1.0	-	-	-	-	-	-	-	-	-	1.0	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
10	**METAL MINING**—Con.												
109	MISCELLANEOUS METAL ORES												
	Establishments ..... number	13	8	6	6	–	–	2	–	–	2	–	–	5
	Employees 1,000	(D)	(D)	(D)	(D)	–	–	(D)	–	–	(D)	–	–	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	(D)	–	–	(D)	–	–	(D)	–	–	(D)
12	**COAL MINING**												
	Establishments ..... number	11	11	3	–	3	–	6	1	5	–	–	2	–
	Employees 1,000	2.0	2.0	(D)	–	(D)	–	(D)	(D)	(D)	–	–	(D)	–
	Value added in mining ..... mil dol	419.7	419.7	(D)	–	(D)	–	(D)	(D)	(D)	–	–	(D)	–
122	BITUMINOUS COAL AND LIGNITE MINING												
	Establishments ..... number	9	9	3	–	3	–	6	1	5	–	–	–	–
	Employees 1,000	(D)	(D)	(D)	–	(D)	–	(D)	(D)	(D)	–	–	–	–
	Value added in mining ..... mil dol	(D)	(D)	(D)	–	(D)	–	(D)	(D)	(D)	–	–	–	–
124	COAL MINING SERVICES												
	Establishments ..... number	2	2	–	–	–	–	–	–	–	–	–	2	–
	Employees 1,000	(D)	(D)	–	–	–	–	–	–	–	–	–	(D)	–
	Value added in mining ..... mil dol	(D)	(D)	–	–	–	–	–	–	–	–	–	(D)	–
13	**OIL AND GAS EXTRACTION**												
	Establishments ..... number	640	635	239	–	–	239	–	–	–	–	25	371	5
	Employees 1,000	9.3	(D)	(D)	–	–	(D)	–	–	–	–	(D)	(D)	(D)
	Value added in mining ..... mil dol	2 732.8	(D)	(D)	–	–	(D)	–	–	–	–	(D)	221.8	(D)
131	CRUDE PETROLEUM AND NATURAL GAS												
	Establishments ..... number	250	248	239	–	–	239	–	–	–	–	–	9	2
	Employees 1,000	3.7	(D)	(D)	–	–	(D)	–	–	–	–	–	(D)	(D)
	Value added in mining ..... mil dol	2 270.4	(D)	(D)	–	–	(D)	–	–	–	–	–	–	(D)
132	NATURAL GAS LIQUIDS												
	Establishments ..... number	28	25	–	–	–	–	–	–	–	–	25	–	3
	Employees 1,000	.9	(D)	–	–	–	–	–	–	–	–	(D)	–	(D)
	Value added in mining ..... mil dol	240.6	(D)	–	–	–	–	–	–	–	–	(D)	–	(D)
138	OIL AND GAS FIELD SERVICES												
	Establishments ..... number	362	362	–	–	–	–	–	–	–	–	–	362	–
	Employees 1,000	4.7	4.7	–	–	–	–	–	–	–	–	–	4.7	–
	Value added in mining ..... mil dol	221.8	221.8	–	–	–	–	–	–	–	–	–	221.8	–
14	**NONMETALLIC MINERALS, EXCEPT FUELS**												
	Establishments ..... number	58	56	7	–	7	–	26	4	22	–	–	23	2
	Employees 1,000	1.8	(D)	(D)	–	(D)	–	1.6	(D)	(D)	–	–	(D)	(D)
	Value added in mining ..... mil dol	135.0	(D)	(D)	–	(D)	–	129.5	(D)	(D)	–	–	(D)	(D)
141	DIMENSION STONE												
	Establishments ..... number	1	1	1	–	1	–	–	–	–	–	–	–	–
	Employees 1,000	(D)	(D)	(D)	–	(D)	–	–	–	–	–	–	–	–
	Value added in mining ..... mil dol	(D)	(D)	(D)	–	(D)	–	–	–	–	–	–	–	–

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
14	**NONMETALLIC MINERALS, EXCEPT FUELS** —Con.													
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP													
	Establishments ..... number	7	7	-	-	-	-	7	-	7	-	-	-	-
	Employees 1,000	.1	.1	-	-	-	-	.1	-	.1	-	-	-	-
	Value added in mining ..... mil dol	13.8	13.8	-	-	-	-	13.8	-	13.8	-	-	-	-
144	SAND AND GRAVEL													
	Establishments ..... number	26	26	2	-	2	-	5	-	5	-	-	19	-
	Employees 1,000	.2	.2	(D)	-	(D)	-	.1	-	.1	-	-	(D)	-
	Value added in mining ..... mil dol	9.5	9.5	(D)	-	(D)	-	6.0	-	6.0	-	-	(D)	-
145	CLAY, CERAMIC, AND REFRACTORY MINERALS													
	Establishments ..... number	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
147	CHEMICAL AND FERTILIZER MINERAL MINING													
	Establishments ..... number	10	9	2	-	2	-	7	4	3	-	-	-	1
	Employees 1,000	1.2	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	-	-	(D)
	Value added in mining ..... mil dol	99.6	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	-	-	(D)
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS													
	Establishments ..... number	4	4	-	-	-	-	-	-	-	-	-	4	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ..... number	9	8	1	-	1	-	7	-	7	-	-	-	1
	Employees 1,000	.1	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	(D)
	Value added in mining ..... mil dol	10.2	10.2	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-

[1]Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item		1987
Establishments during year	number	752
With 0 to 19 employees	do.	602
With 20 to 99 employees	do.	122
With 100 employees or more	do.	28
All employees:		
Average for year	1,000	14.8
Payroll for year	mil dol.	437.7
Production, development, and exploration workers:		
Average for year	1,000	10.6
March	do.	10.0
May	do.	10.5
August	do.	10.7
November	do.	11.0
Hours	millions	22.4
January to March	do.	5.3
April to June	do.	5.5
July to September	do.	5.7
October to December	do.	5.9
Wages	mil dol.	301.7
Supplemental labor costs not included in payroll	do.	89.0
Legally required expenditures, including Social Security contributions	do.	37.2
Payments for voluntary programs	do.	51.7
Value added by mining	do.	3 539.1
Inventories, beginning of 1987	do.	307.0
Inventories, end of 1987	do.	255.1
Cost of supplies	mil dol.	1 869.7
Supplies used, minerals received, and purchased machinery installed	do.	1 425.1
Resales	do.	2.0
Purchased fuels consumed	do.	54.1
Purchased electric energy:		
Quantity	mil kWh	2 805.3
Cost	mil dol.	145.6
Electric energy generated less sold	mil kWh	98.5
Contract work	mil dol.	242.8
Cost of purchased communication services	do.	4.9
Value of shipments and receipts	do.	4 981.5
Value of resales	do.	2.2
Capital expenditures during year (except land and mineral rights)	do.	427.3
New capital expenditures during year	do.	212.1
Buildings and other structures, except land	do.	16.7
Machinery and equipment	do.	195.4
Used capital expenditures during year	do.	18.4
Buildings and other structures, except land	do.	.7
Machinery and equipment	do.	17.6
Mineral exploration and development[1]	do.	196.9
Rental payments during year	do.	28.6
Buildings and other structures, except land	do.	7.1
Machinery and equipment	do.	21.6
Expensed mineral exploration, development, land, and rights[1,2]	do.	138.3

[1]Excludes data for mining services industries and natural gas liquids industries where data were not collected.
[2]Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year: Total (number)	Establishments during year: With 20 employees or more (number)	All employees: Number[2] (1,000)	All employees: Payroll (million dollars)	Production, development, and exploration workers: Number (1,000)	Production, development, and exploration workers: Hours (millions)	Production, development, and exploration workers: Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	New Mexico	-	**752**	**150**	**14.8**	**437.7**	**10.6**	**22.4**	**301.7**	**3 539.1**	**1 869.7**	**4 981.5**	**427.3**
	Bernalillo County	-	11	4	.4	14.5	.3	.6	9.0	57.5	17.5	70.0	5.0
12	**Coal mining**	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	**Nonmetallic minerals, except fuels**	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Cibola County	-	7	2	.3	8.9	.3	.5	8.7	21.6	(D)	34.1	(D)
10	**Metal mining**	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Colfax County	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	**Coal mining**	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Eddy County	-	14	7	1.3	37.6	1.0	2.2	31.1	120.1	133.3	247.3	6.1
14	**Nonmetallic minerals, except fuels**	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Grant County	-	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	**Metal mining**	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lea County	-	15	9	.4	13.7	.4	.7	11.0	103.5	(D)	408.7	(D)
9	**Oil and gas extraction**[3]	-	15	9	.4	13.7	.4	.7	11.0	103.5	(D)	408.7	(D)
32	Natural gas liquids	-	15	9	.4	13.7	.4	.7	11.0	103.5	(D)	408.7	(D)
	McKinley County	-	9	4	.5	22.1	.4	.8	16.6	127.1	47.4	170.5	4.0
1	**Coal mining**	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Bituminous coal and lignite mining	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	San Juan County	-	9	7	1.2	44.3	.9	1.9	36.5	368.7	508.7	774.1	103.3
1	**Coal mining**	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2	Bituminous coal and lignite mining	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1	**Oil and gas extraction**	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2	Natural gas liquids	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Table 5. Industry Group Statistics for Counties: 1987—Con.

[Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
New Mexico	**752**	**43**	**11**	**640**	**58**
0 to 4 employees	392	22	1	344	25
5 to 9 employees	118	9	1	100	6
10 to 19 employees	92	4	1	76	11
20 to 49 employees	93	2	1	82	8
50 to 99 employees	29	2	–	25	2
100 to 249 employees	18	2	3	11	2
250 to 499 employees	7	1	4	1	1
500 to 999 employees	3	1	–	1	1
Bernalillo	**11**	**4**	**2**	**–**	**5**
0 to 19 employees	7	4	–	–	3
20 to 99 employees	2	–	–	–	2
100 to 249 employees	2	–	2	–	–
Catron	**1**	**–**	**1**	**–**	**–**
0 to 19 employees	1	–	1	–	–
Chaves	**2**	**1**	**–**	**–**	**1**
0 to 19 employees	2	1	–	–	1
Cibola	**7**	**5**	**–**	**–**	**2**
0 to 19 employees	5	3	–	–	2
20 to 99 employees	1	1	–	–	–
100 to 249 employees	1	1	–	–	–
Colfax	**3**	**–**	**2**	**–**	**1**
0 to 19 employees	1	–	–	–	1
100 to 249 employees	1	–	1	–	–
250 employees or more	1	–	1	–	–
Curry	**1**	**–**	**–**	**–**	**1**
0 to 19 employees	1	–	–	–	1
De Baca	**1**	**–**	**–**	**–**	**1**
0 to 19 employees	1	–	–	–	1
Dona Ana	**4**	**–**	**–**	**–**	**4**
0 to 19 employees	3	–	–	–	3
20 to 99 employees	1	–	–	–	1
Eddy	**14**	**–**	**–**	**5**	**9**
0 to 19 employees	7	–	–	2	5
20 to 99 employees	3	–	–	3	–
100 to 249 employees	2	–	–	–	2
250 employees or more	2	–	–	–	2
Grant	**10**	**8**	**–**	**–**	**2**
0 to 19 employees	5	4	–	–	1
20 to 99 employees	2	1	–	–	1
100 to 249 employees	1	1	–	–	–
250 employees or more	2	2	–	–	–
Harding	**1**	**–**	**–**	**–**	**1**
0 to 19 employees	1	–	–	–	1
Hidalgo	**1**	**1**	**–**	**–**	**–**
0 to 19 employees	1	1	–	–	–
Lea	**15**	**–**	**–**	**15**	**–**
0 to 19 employees	6	–	–	6	–
20 to 99 employees	9	–	–	9	–

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
New Mexico—Con.					
Lincoln	1	1	–	–	–
0 to 19 employees	1	1	–	–	–
Luna	**2**	**1**	**–**	**–**	**1**
0 to 19 employees	2	1	–	–	1
McKinley	**9**	**5**	**2**	**1**	**1**
0 to 19 employees	5	4	–	–	1
20 to 99 employees	3	1	1	1	–
250 employees or more	1	–	1	–	–
Otero	**3**	**–**	**–**	**–**	**3**
0 to 19 employees	3	–	–	–	3
Rio Arriba	**4**	**–**	**–**	**1**	**3**
0 to 19 employees	3	–	–	1	2
20 to 99 employees	1	–	–	–	1
Roosevelt	**1**	**–**	**–**	**1**	**–**
20 to 99 employees	1	–	–	1	–
Sandoval	**2**	**–**	**–**	**–**	**2**
0 to 19 employees	2	–	–	–	2
San Juan	**9**	**–**	**2**	**6**	**2**
0 to 19 employees	2	–	–	–	2
20 to 99 employees	4	–	–	4	–
100 to 249 employees	1	–	–	1	–
250 employees or more	2	–	2	–	–
San Miguel	**1**	**–**	**–**	**–**	**1**
0 to 19 employees	1	–	–	–	1
Santa Fe	**8**	**2**	**–**	**–**	**6**
0 to 19 employees	6	1	–	–	5
20 to 99 employees	2	1	–	–	1
Sierra	**3**	**3**	**–**	**–**	**–**
0 to 19 employees	3	3	–	–	–
Socorro	**2**	**1**	**–**	**–**	**1**
0 to 19 employees	1	1	–	–	–
20 to 99 employees	1	–	–	–	1
Taos	**5**	**1**	**–**	**–**	**4**
0 to 19 employees	4	1	–	–	3
20 to 99 employees	1	–	–	–	1
Torrance	**1**	**–**	**–**	**–**	**1**
0 to 19 employees	1	–	–	–	1
Union	**1**	**–**	**–**	**–**	**1**
0 to 19 employees	1	–	–	–	1
Valencia	**2**	**1**	**–**	**–**	**1**
0 to 19 employees	1	1	–	–	–
20 to 99 employees	1	–	–	–	1
Undistributed	**627**	**9**	**2**	**612**	**4**
0 to 19 employees	525	9	2	511	4
20 to 99 employees	90	–	–	89	1
100 to 249 employees	10	–	–	10	–
250 employees or more	2	–	–	2	–

[1]Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

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Utah

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 380 establishments classified in mineral industries in Utah was $2.0 billion in 1987, or 1 percent of the Nation's total. This compares to $2.7 billion in 1982, when it was 1 percent of the Nation's total. Value added by mining amounted to $1.6 billion in 1987, and payroll in mining amounted to $236.7 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Utah was 7.9 thousand in 1987, or 1 percent of the Nation's total. This is a decrease of 55 percent from 1982. The coal mining industry led all other mineral industries in the State, accounting for approximately 34 percent of the State's mineral industries employment.

State Map

UTAH - Metropolitan Statistical Areas, Counties, and Selected Places

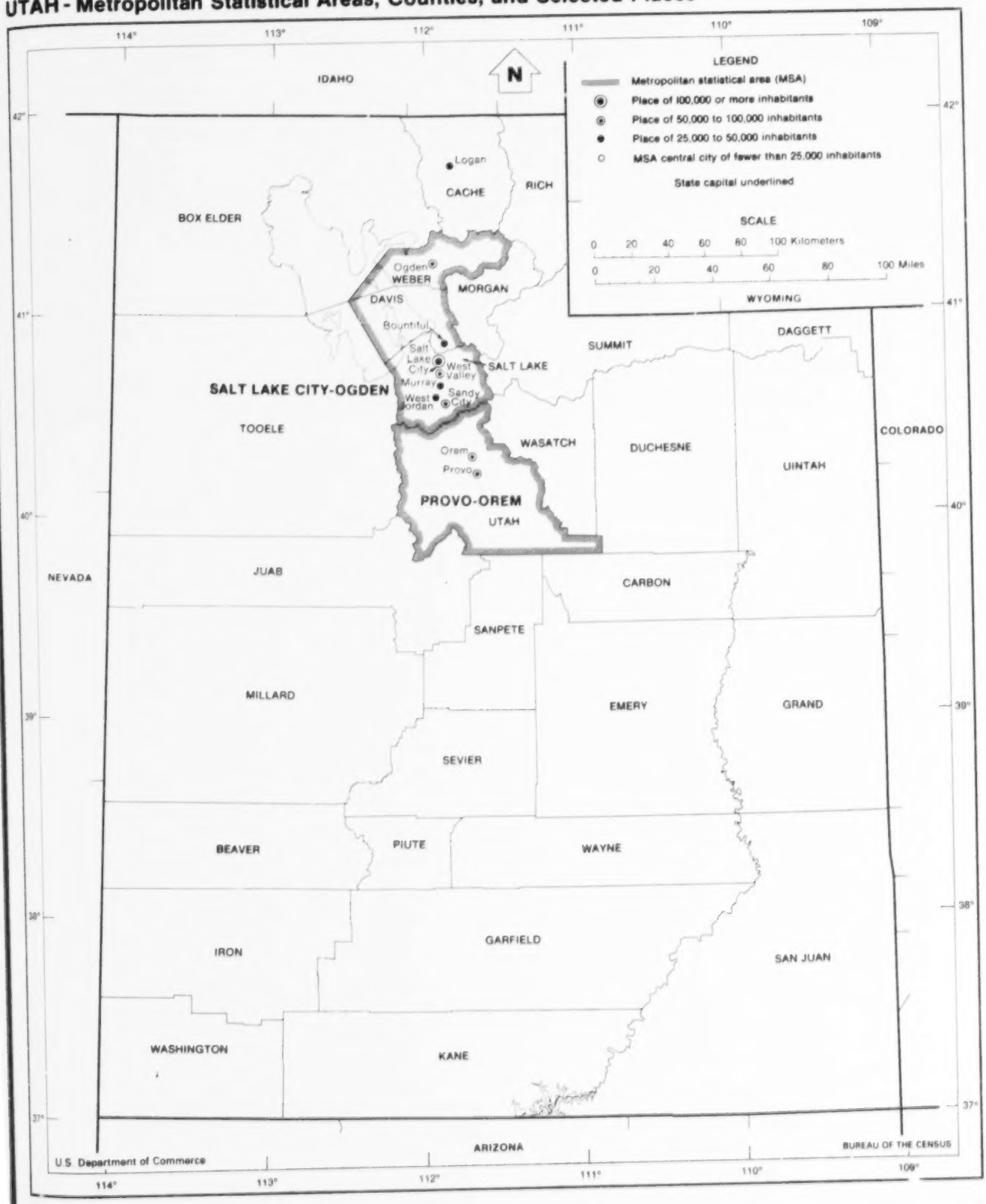

Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1987	380	68	7.9	236.7	5.7	11.9	161.8	1 552.0	582.5	1 951.8	182.7
1982	[1]585	(NA)	17.5	466.8	13.6	27.4	355.0	1 664.8	1 660.4	2 700.9	624.3
1977	429	100	16.7	269.3	11.7	23.1	183.0	910.7	625.9	1 270.3	266.3
1972	308	75	11.4	116.5	8.9	17.6	87.3	372.3	319.3	576.7	114.8

[1]Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1987											1982	
			Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees[2] (1,000)	Value added by mining (million dollars)
		E[1]	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries	-	**380**	**68**	**7.9**	**236.7**	**5.7**	**11.9**	**161.8**	**1 552.0**	**582.5**	**1 951.8**	**182.7**	**17.5**	**1 664.8**
10	**Metal mining**	-	**57**	**16**	**2.2**	**64.1**	**1.6**	**3.3**	**37.9**	**323.5**	**(D)**	**446.2**	**(D)**	**FF**	**(D)**
102	Copper ores	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
1021	Copper ores	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
104	Gold and silver ores	-	14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	37.7
1041	Gold ores	-	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	36.6
1044	Silver ores	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
108	Metal mining services	E4	14	5	.2	6.4	.2	.3	4.1	9.8	3.9	12.5	1.2	.1	4.8
1081	Metal mining services	E4	14	5	.2	6.4	.2	.3	4.1	9.8	3.9	12.5	1.2	.1	4.8
109	Miscellaneous metal ores	-	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	15.0
1094	Uranium-radium-vanadium ores	-	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	13.8
1099	Miscellaneous metal ores, n.e.c.	E1	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	**Coal mining**	-	**19**	**14**	**2.7**	**92.8**	**2.2**	**4.4**	**72.4**	**325.7**	**(D)**	**406.7**	**(D)**	**5.3**	**370.9**
122	Bituminous coal and lignite mining	-	17	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.3	370.2
1222	Bituminous coal underground mining	-	16	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	**Oil and gas extraction**	**E1**	**256**	**27**	**2.1**	**56.9**	**1.3**	**2.9**	**35.9**	**844.5**	**279.9**	**1 019.6**	**104.9**	**5.8**	**1 040.6**
131	Crude petroleum and natural gas	E1	91	16	1.0	29.4	.4	.9	13.4	771.8	136.5	809.2	99.1	1.7	691.5
1311	Crude petroleum and natural gas	E1	91	16	1.0	29.4	.4	.9	13.4	771.8	136.5	809.2	99.1	1.7	691.5
132	Natural gas liquids	-	9	2	.1	3.9	.1	.2	3.6	20.9	118.3	138.4	.9	.1	103.0
1321	Natural gas liquids	-	9	2	.1	3.9	.1	.2	3.6	20.9	118.3	138.4	.9	.1	103.0
138	Oil and gas field services	E2	156	9	1.0	23.6	.8	1.8	18.8	51.7	25.2	71.9	4.9	3.9	246.2
1381	Drilling oil and gas wells	E3	31	3	.2	5.8	.2	.5	5.0	12.0	6.4	16.9	1.5	1.2	85.1
1382	Oil and gas field exploration services	E1	22	-	.1	2.4	.1	.2	1.8	5.8	3.0	8.2	.6	.5	19.9
1389	Oil and gas field services, n.e.c.	E2	103	6	.6	15.3	.5	1.2	12.0	33.9	15.8	46.8	2.9	2.2	141.1
14	**Nonmetallic minerals, except fuels**	-	**48**	**11**	**.8**	**23.0**	**.6**	**1.4**	**15.8**	**58.3**	**32.3**	**79.3**	**11.3**	**EE**	**(D)**
144	Sand and gravel	E1	15	3	.1	2.8	.1	.2	1.8	6.0	3.1	8.5	.6	(NA)	(NA)
1442	Construction sand and gravel	E1	15	3	.1	2.8	.1	.2	1.8	6.0	3.1	8.5	.6	(NA)	(NA)
147	Chemical and fertilizer mineral mining	-	7	5	.5	13.7	.4	.8	9.6	35.5	(D)	48.8	(D)	.7	68.3
1474	Potash, soda, and borate minerals	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
1475	Phosphate rock	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
149	Miscellaneous nonmetallic minerals, except fuels	E1	10	2	.1	3.7	.1	.2	2.2	10.4	3.7	12.7	1.4	BB	(D)
1499	Miscellaneous nonmetallic minerals, except fuels	E1	10	2	.1	3.7	.1	.2	2.2	10.4	3.7	12.7	1.4	BB	(D)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1–10 to 19 percent; E2–20 to 29 percent; E3–30 to 39 percent; E4–40 to 49 percent; E5–50 to 59 percent; E6–60 to 69 percent; E7–70 to 79 percent; E8–80 to 89 percent; E9–90 percent or more.

[2]General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA–100 to 249 employees; BB–250 to 499 employees; CC–500 to 999 employees; EE–1,000 to 2,499 employees; FF–2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	9	4	5.2	5.8	(D)
Crushed and broken stone, including riprap	2	(D)	(D)	(D)	(D)
Crushed and broken limestone	2	(D)	(D)	(D)	(D)
Sand and gravel	3	3	3.7	4.1	4 519.2

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed[1]	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
	ALL INDUSTRIES													
	Establishments ..... number	380	369	109	9	15	85	43	18	21	4	12	205	11
	Employees 1,000	7.9	7.9	1.7	(D)	(D)	9	3.8	2.8	(D)	(D)	(D)	(D)	(Z)
	Value added in mining ..... mil dol	1 552.0	1 583.3	831.1	(D)	(D)	772.2	426.3	316.1	(D)	(D)	(D)	(D)	-1.4
10	**METAL MINING**													
	Establishments ..... number	57	52	11	5	5	1	6	4	2	-	3	32	5
	Employees 1,000	2.2	2.2	(D)	(Z)	(D)	(D)	7	(D)	(D)	-	(D)	(D)	(Z)
	Value added in mining ..... mil dol	323.5	324.7	(D)	1.1	(D)	(D)	76.8	(D)	(D)	-	(D)	(D)	-1.2
101	IRON ORES													
	Establishments ..... number	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees 1,000	-	-	-	-	-	-	-	-	-	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
102	COPPER ORES													
	Establishments ..... number	9	9	4	-	4	-	-	-	-	-	1	4	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	(D)	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	(D)	-	-
103	LEAD AND ZINC ORES													
	Establishments ..... number	1	-	-	-	-	-	-	-	-	-	-	-	(D)
	Employees 1,000	(D)	-	-	-	-	-	-	-	-	-	-	-	(D)
	Value added in mining ..... mil dol	(D)	-	-	-	-	-	-	-	-	-	-	-	
104	GOLD AND SILVER ORES													
	Establishments ..... number	14	11	2	2	-	-	2	1	1	-	-	7	3
	Employees 1,000	(D)	(D)	(D)	(D)	-	-	(D)	(D)	(D)	-	-	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	(D)	-	-	(D)	(D)	(D)	-	-	(D)	(D)
106	FERROALLOY ORES, EXCEPT VANADIUM													
	Establishments ..... number	5	5	-	-	-	-	-	-	-	-	-	5	-
	Employees 1,000	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining ..... mil dol	.4	.4	-	-	-	-	-	-	-	-	-	.4	-
108	METAL MINING SERVICES													
	Establishments ..... number	14	14	-	-	-	-	-	-	-	-	-	14	-
	Employees 1,000	.2	.2	-	-	-	-	-	-	-	-	-	.2	-
	Value added in mining ..... mil dol	9.8	9.8	-	-	-	-	-	-	-	-	-	9.8	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

(For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
10	**METAL MINING—Con.**												
109	MISCELLANEOUS METAL ORES												
	Establishments ..... number	13	12	4	3	-	1	4	3	1	-	2	2	1
	Employees 1,000	(D)	(D)	(D)	(D)		(D)	(D)	(D)	(D)		(D)	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)	(D)	-	(D)	(D)	(D)
12	**COAL MINING**													
	Establishments ..... number	19	19	4	3	1	-	13	13	-	-	-	2	-
	Employees 1,000	2.7	2.7	(D)	(D)	(D)	-	(D)	(D)	-	-	-	(D)	-
	Value added in mining ..... mil dol	325.7	325.7	(D)	(D)	(D)	-	(D)	(D)	-	-	-	(D)	-
122	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments ..... number	17	17	4	3	1	-	13	13	-	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-	-
124	COAL MINING SERVICES													
	Establishments ..... number	2	2	-	-	-	-	-	-	-	-	-	2	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
13	**OIL AND GAS EXTRACTION**													
	Establishments ..... number	256	251	84	-	-	84	-	-	-	-	9	159	5
	Employees 1,000	2.1	(D)	(D)	-	-	(D)	-	-	-	-	1	(D)	(D)
	Value added in mining ..... mil dol	844.5	(D)	(D)	-	-	(D)	-	-	-	-	30.9	51.7	(D)
131	CRUDE PETROLEUM AND NATURAL GAS													
	Establishments ..... number	91	86	84	-	-	84	-	-	-	-	-	2	5
	Employees 1,000	1.0	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)
	Value added in mining ..... mil dol	771.8	(D)	(D)	-	-	(D)	-	-	-	-	-	-	(D)
132	NATURAL GAS LIQUIDS													
	Establishments ..... number	9	9	-	-	-	-	-	-	-	-	8	1	-
	Employees 1,000	.1	.1	-	-	-	-	-	-	-	-	1	-	-
	Value added in mining ..... mil dol	20.9	20.9	-	-	-	-	-	-	-	-	30.9	-	-
138	OIL AND GAS FIELD SERVICES													
	Establishments ..... number	156	156	-	-	-	-	-	-	-	-	-	156	-
	Employees 1,000	1.0	1.0	-	-	-	-	-	-	-	-	-	1.0	-
	Value added in mining ..... mil dol	51.7	51.7	-	-	-	-	-	-	-	-	-	51.7	-
14	**NONMETALLIC MINERALS, EXCEPT FUELS**													
	Establishments ..... number	48	47	10	1	9	-	24	1	19	4	1	12	1
	Employees 1,000	.8	(D)	(Z)	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Value added in mining ..... mil dol	58.3	(D)	2.1	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)
141	DIMENSION STONE													
	Establishments ..... number	1	1	1	-	1	-	-	-	-	-	-	-	-
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
14	**NONMETALLIC MINERALS, EXCEPT FUELS** —Con.												
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP												
	Establishments ..... number	8	7	-	-	-	-	7	-	7	-	-	-	1
	Employees 1,000	(Z)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	(D)
	Value added in mining ..... mil dol	1.3	(D)	-	-	-	-	(D)	-	(D)	-	-	-	(D)
144	SAND AND GRAVEL												
	Establishments ..... number	15	15	2	1	1	-	5	-	5	-	1	7	-
	Employees 1,000	1	.1	(D)	(D)	(D)	-	1	-	1	-	(D)	(Z)	-
	Value added in mining ..... mil dol	6.0	6.0	(D)	(D)	(D)	-	3.6	-	3.6	-	(D)	1.4	-
145	CLAY, CERAMIC, AND REFRACTORY MINERALS												
	Establishments ..... number	3	3	1	-	1	-	2	-	2	-	-	-	-
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	-	(D)	-	-	-	-
147	CHEMICAL AND FERTILIZER MINERAL MINING												
	Establishments ..... number	7	7	2	-	2	-	5	-	1	4	-	-	-
	Employees 1,000	.5	.5	(D)	-	(D)	-	(D)	-	(D)	(D)	-	-	-
	Value added in mining ..... mil dol	35.5	35.5	(D)	-	(D)	-	(D)	-	(D)	(D)	-	-	-
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS												
	Establishments ..... number	4	4	-	-	-	-	-	-	-	-	-	4	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	-	-
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS												
	Establishments ..... number	10	10	4	-	4	-	5	1	4	-	-	1	-
	Employees 1,000	.1	.1	(D)	-	(D)	-	(D)	(D)	(D)	-	-	-	-
	Value added in mining ..... mil dol	10.4	10.4	(D)	-	(D)	-	(D)	(D)	(D)	-	-	-	-

[1]Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item		1987
Establishments during year	number	380
With 0 to 19 employees	do.	312
With 20 to 99 employees	do.	47
With 100 employees or more	do.	21
All employees:		
Average for year	1,000	7.9
Payroll for year	mil dol.	236.7
Production, development, and exploration workers:		
Average for year	1,000	5.7
March	do.	5.5
May	do.	5.6
August	do.	5.7
November	do.	6.1
Hours	millions	11.9
January to March	do.	2.9
April to June	do.	2.9
July to September	do.	2.9
October to December	do.	3.2
Wages	mil dol.	161.8
Supplemental labor costs not included in payroll	do.	80.7
Legally required expenditures, including Social Security contributions	do.	31.4
Payments for voluntary programs	do.	49.3
Value added by mining	do.	1 552.0
Inventories, beginning of 1987	do.	209.5
Inventories, end of 1987	do.	203.2
Cost of supplies	mil dol.	582.5
Supplies used, minerals received, and purchased machinery installed	do.	417.5
Resales	do.	1.5
Purchased fuels consumed	do.	24.9
Purchased electric energy:		
Quantity	mil kWh	1 380.9
Cost	mil dol.	66.2
Electric energy generated less sold	mil kWh	13.7
Contract work	mil dol.	72.5
Cost of purchased communication services	do.	1.8
Value of shipments and receipts	do.	1 951.8
Value of resales	do.	1.6
Capital expenditures during year (except land and mineral rights)	do.	182.7
New capital expenditures during year	do.	75.0
Buildings and other structures, except land	do.	4.8
Machinery and equipment	do.	70.2
Used capital expenditures during year	do.	14.3
Buildings and other structures, except land	do.	4.7
Machinery and equipment	do.	9.5
Mineral exploration and development[1]	do.	93.4
Rental payments during year	do.	10.0
Buildings and other structures, except land	do.	1.4
Machinery and equipment	do.	8.6
Expensed mineral exploration, development, land, and rights[1,2]	do.	57.8

[1]Excludes data for mining services industries and natural gas liquids industries where data were not collected.
[2]Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1987

Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year: Total (number)	Establishments during year: With 20 employees or more (number)	All employees: Number[2] (1,000)	All employees: Payroll (million dollars)	Production, development, and exploration workers: Number (1,000)	Production, development, and exploration workers: Hours (millions)	Production, development, and exploration workers: Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Utah	-	**380**	**60**	**7.9**	**236.7**	**5.7**	**11.9**	**161.8**	**1 552.0**	**582.5**	**1 951.8**	**182.7**
	Carbon County	-	**9**	**9**	**1.4**	**50.9**	**1.2**	**2.3**	**42.6**	**159.6**	**58.8**	**196.3**	**22.2**
12	**Coal mining**	-	**9**	**9**	**1.4**	**50.9**	**1.2**	**2.3**	**42.6**	**159.6**	**58.8**	**196.3**	**22.2**
122	Bituminous coal and lignite mining	-	9	9	1.4	50.9	1.2	2.3	42.6	159.6	58.8	196.3	22.2
	Emery County	**E2**	**5**	**3**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
12	**Coal mining**	**E2**	**5**	**3**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
122	Bituminous coal and lignite mining	E2	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Iron County	-	**3**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
104	Gold and silver ores	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Millard County	-	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
109	Miscellaneous metal ores	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Salt Lake County	-	**41**	**8**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**23**	**5**	**EE**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
102	Copper ores	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	San Juan County	-	**10**	**3**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**7**	**2**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
109	Miscellaneous metal ores	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sevier County	-	**4**	**2**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
12	**Coal mining**	-	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
122	Bituminous coal and lignite mining	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Tooele County	-	**3**	**3**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
10	**Metal mining**	-	**1**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
104	Gold and silver ores	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Uintah County	-	**6**	**3**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
14	**Nonmetallic minerals, except fuels**	-	**4**	**3**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
147	Chemical and fertilizer mineral mining	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Weber County	-	**3**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
14	**Nonmetallic minerals, except fuels**	-	**2**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
147	Chemical and fertilizer mineral mining	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1987—Con.

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agen rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or m number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employe EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbrevia and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Utah	**380**	**57**	**19**	**256**	**48**
0 to 4 employees	213	29	3	157	24
5 to 9 employees	56	6	-	40	10
10 to 19 employees	43	6	2	32	3
20 to 49 employees	35	6	1	20	8
50 to 99 employees	12	2	4	5	1
100 to 249 employees	17	6	7	2	2
250 to 499 employees	3	2	1	-	-
500 to 999 employees	1	-	1	-	-
Beaver	1	-	-	-	1
0 to 19 employees	1	-	-	-	1
Box Elder	1	-	-	-	1
0 to 19 employees	1	-	-	-	1
Cache	1	1	-	-	-
0 to 19 employees	1	1	-	-	-
Carbon	9	-	9	-	-
20 to 99 employees	3	-	3	-	-
100 to 249 employees	5	-	5	-	-
250 employees or more	1	-	1	-	-
Davis	2	1	-	-	1
0 to 19 employees	2	1	-	-	1
Duchesne	3	-	-	3	-
0 to 19 employees	2	-	-	2	-
20 to 99 employees	1	-	-	1	-
Emery	5	-	5	-	-
0 to 19 employees	2	-	2	-	-
20 to 99 employees	1	-	1	-	-
100 to 249 employees	1	-	1	-	-
250 employees or more	1	-	1	-	-
Garfield	1	1	-	-	-
0 to 19 employees	1	1	-	-	-
Grand	5	3	-	-	2
0 to 19 employees	4	3	-	-	1
20 to 99 employees	1	-	-	-	1
Iron	2	1	-	-	1
0 to 19 employees	1	-	-	-	1
100 to 249 employees	1	1	-	-	-
Juab	1	1	-	-	-
0 to 19 employees	1	1	-	-	-
Kane	1	1	-	-	-
0 to 19 employees	1	1	-	-	-
Millard	1	1	-	-	-
100 to 249 employees	1	1	-	-	-
Salt Lake	41	23	1	1	16
0 to 19 employees	33	16	-	1	14
20 to 99 employees	4	1	1	-	2
100 to 249 employees	2	2	-	-	-
250 employees or more	2	2	-	-	-
San Juan	10	7	-	3	-
0 to 19 employees	7	5	-	2	-
20 to 99 employees	2	1	-	1	-
100 to 249 employees	1	1	-	-	-
Sanpete	1	-	-	-	1
0 to 19 employees	1	-	-	-	1
Sevier	4	-	1	-	3
0 to 19 employees	2	-	-	-	2
20 to 99 employees	1	-	-	-	1
100 to 249 employees	1	-	1	-	-
Summit	4	-	1	1	2
0 to 19 employees	4	-	1	1	2
Tooele	3	1	-	-	2
20 to 99 employees	2	-	-	-	2
100 to 249 employees	1	1	-	-	-
Uintah	5	-	-	1	4
0 to 19 employees	2	-	-	1	1
20 to 99 employees	2	-	-	-	2
100 to 249 employees	1	-	-	-	1
Utah	8	1	-	-	7
0 to 19 employees	5	1	-	-	4
Wasatch	2	-	-	-	2
0 to 19 employees	2	-	-	-	2
Washington	4	2	-	-	2
0 to 19 employees	3	1	-	-	2
20 to 99 employees	1	1	-	-	-
Weber	2	-	-	-	2
0 to 19 employees	1	-	-	-	1
100 to 249 employees	1	-	-	-	1
Undistributed	267	14	2	247	4
0 to 19 employees	236	9	2	222	3
20 to 99 employees	29	5	-	23	1
100 to 249 employees	2	-	-	2	-

[1]Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

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Wyoming

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SUMMARY OF FINDINGS

The total value of shipments and receipts for the 774 establishments classified in mineral industries in Wyoming was $5.8 billion in 1987, or 4 percent of the Nation's total. This compares to $8.6 billion in 1982, when it was 3 percent of the Nation's total. Value added by mining amounted to $4.4 billion in 1987, and payroll in mining amounted to $579.9 million. All dollar figures shown are in current dollars for the years specified and have not been adjusted for changes in price levels. When making comparisons to prior years, users should take into consideration the inflation that has occurred.

Mineral industries employment in Wyoming was 17.1 thousand in 1987, or 2 percent of the Nation's total. This is a decrease of 50 percent from 1982. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 48 percent of the State's mineral industries employment.

Metropolitan Statistical Area, Counties, and Selected Places

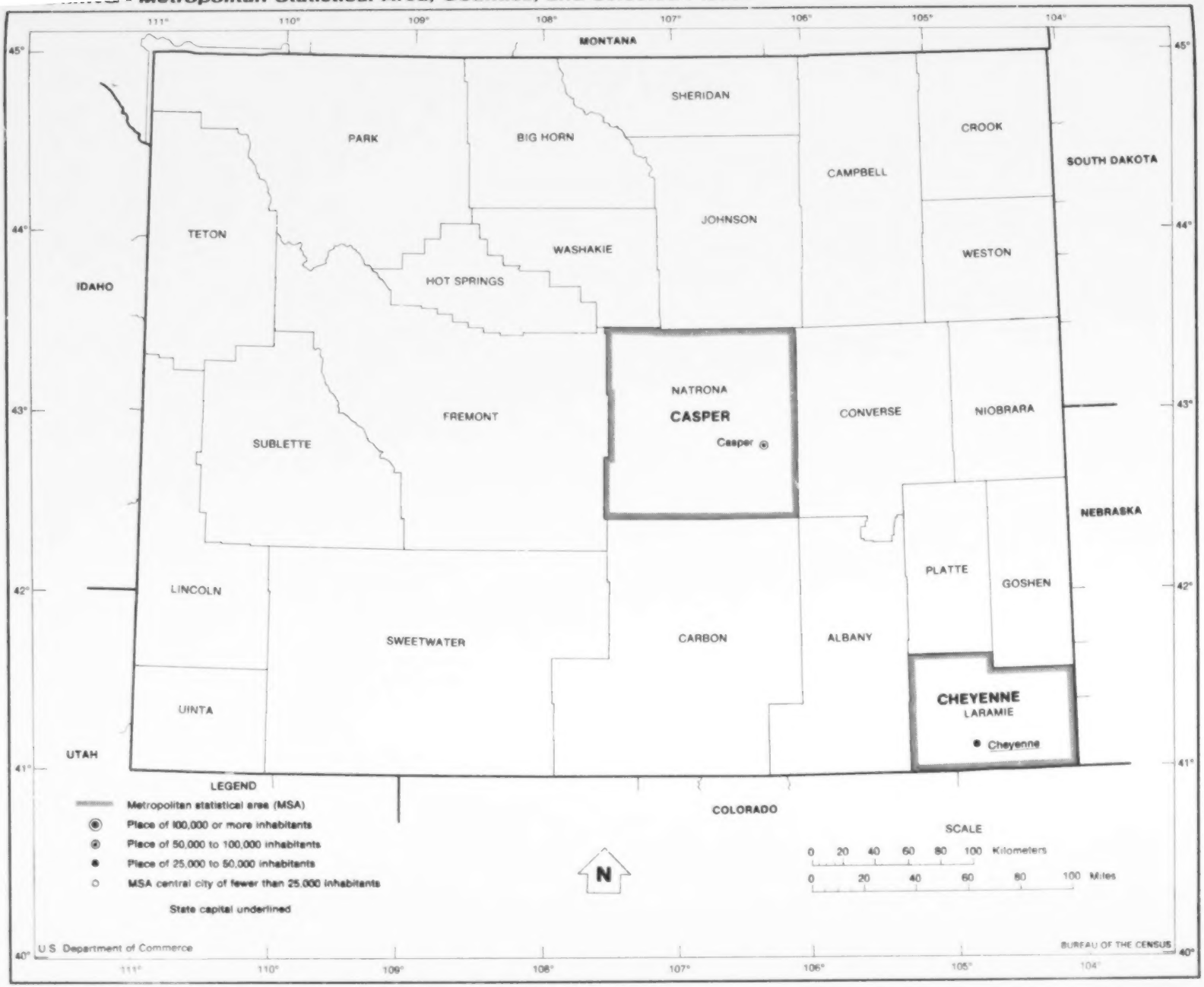

Table 1. Historical Statistics for the State: 1987 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1987	774	142	17.1	579.9	12.7	26.7	413.5	4 362.0	2 060.4	5 846.5	575.9
1982	[1] 1 150	(NA)	34.2	939.6	26.0	54.3	690.4	6 858.8	3 946.7	8 605.9	2 198.7
1977	766	164	22.7	403.7	17.9	38.6	304.9	2 282.0	1 516.6	2 967.5	831.1
1972	507	119	11.5	120.0	9.1	19.1	90.7	678.5	388.7	886.7	192.5

[1] Restated to reflect the 1987 definition of establishments in the crude petroleum and natural gas and mining services industries.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1987 and 1982

[Industries and industry groups with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1987											1982	
			Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed etc (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees[2] (1,000)	Value added by mining (million dollars)
		E[1]	Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries	-	**774**	**142**	**17.1**	**579.9**	**12.7**	**26.7**	**413.5**	**4 362.0**	**2 060.4**	**5 846.5**	**575.9**	**34.2**	**6 858.8**
10	**Metal mining**	-	**31**	**3**	**.5**	**15.9**	**.4**	**.8**	**10.0**	**5.2**	**18.1**	**21.8**	**1.8**	**2.7**	**190.6**
109	Miscellaneous metal ores	-	22	3	.5	15.7	.3	.6	9.9	4.8	(D)	20.9	(D)	EE	(D)
1094	Uranium-radium-vanadium ores	-	21	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
12	**Coal mining**	-	**48**	**30**	**4.8**	**196.6**	**3.5**	**7.1**	**136.8**	**1 258.7**	**255.1**	**1 441.0**	**72.9**	**6.1**	**1 285.3**
122	Bituminous coal and lignite mining	-	42	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
1221	Bituminous coal and lignite surface mining	-	40	27	4.7	194.2	3.4	6.9	134.8	1 252.4	(D)	1 432.9	(D)	(NA)	(NA)
13	**Oil and gas extraction**	-	**656**	**91**	**8.2**	**235.5**	**6.0**	**13.0**	**184.6**	**2 646.7**	**1 572.0**	**3 761.8**	**457.0**	**20.4**	**4 913.2**
131	Crude petroleum and natural gas	-	180	25	3.0	109.4	1.8	3.9	67.4	2 317.7	747.1	2 662.8	402.0	5.0	3 759.9
1311	Crude petroleum and natural gas	-	180	25	3.0	109.4	1.8	3.9	67.4	2 317.7	747.1	2 662.8	402.0	5.0	3 759.9
132	Natural gas liquids	-	34	6	.5	15.1	.5	.9	13.9	118.3	722.6	802.5	38.4	.4	230.6
1321	Natural gas liquids	-	34	6	.5	15.1	.5	.9	13.9	118.3	722.6	802.5	38.4	.4	230.6
138	Oil and gas field services	E2	442	60	4.7	111.0	3.7	8.2	83.3	210.8	102.4	296.5	16.7	15.0	922.7
1381	Drilling oil and gas wells	E1	69	23	1.6	38.8	1.3	2.7	28.1	57.0	39.9	92.1	4.8	6.4	410.6
1382	Oil and gas field exploration services	E1	57	4	.3	8.0	.3	.6	5.8	11.2	5.7	15.4	1.5	.8	38.2
1389	Oil and gas field services, n.e.c	E3	316	33	2.7	64.2	2.1	4.9	49.5	142.6	58.9	189.1	10.4	7.9	473.9
14	**Nonmetallic minerals, except fuels**	-	**30**	**18**	**3.5**	**131.9**	**2.8**	**6.0**	**102.2**	**451.3**	**215.1**	**622.2**	**44.2**	**4.9**	**489.6**
145	Clay, ceramic, and refractory minerals	-	12	9	.4	8.1	.3	.6	6.3	37.1	24.9	54.0	8.0	.6	46.2
1459	Clay, ceramic, and refractory minerals, n.e.c	-	12	9	.4	8.1	.3	.6	6.3	37.1	24.9	54.0	8.0	.6	46.2
147	Chemical and fertilizer mineral mining	-	6	5	3.0	118.4	2.4	5.0	91.7	397.8	183.0	545.7	35.2	4.0	410.6
1474	Potash, soda, and borate minerals	-	6	5	3.0	118.4	2.4	5.0	91.7	397.8	183.0	545.7	35.2	FF	(D)

[1] Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1 – 10 to 19 percent; E2 – 20 to 29 percent; E3 – 30 to 39 percent; E4 – 40 to 49 percent; E5 – 50 to 59 percent; E6 – 60 to 69 percent; E7 – 70 to 79 percent; E8 – 80 to 89 percent; E9 – 90 percent or more.

[2] General statistics for some industries and industry groups are withheld to avoid disclosing data for individual companies. However, for such industries and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA – 100 to 249 employees; BB – 250 to 499 employees; CC – 500 to 999 employees; EE – 1,000 to 2,499 employees; FF – 2,500 employees or more.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1987

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	8	.1	.7	7	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
	ALL INDUSTRIES												
	Establishments ..... number	774	754	184	7	7	170	55	5	46	4	34	481	20
	Employees 1,000	17.1	16.8	(D)	(Z)	(D)	3.0	8.0	(D)	4.6	(D)	(D)	(D)	2
	Value added in mining ..... mil dol	4 362.0	4 370.9	(D)	.7	(D)	(D)	1 669.2	(D)	1 249.2	(D)	(D)	(D)	-8.8
10	**METAL MINING**													
	Establishments ..... number	31	23	8	7	-	1	2	-	1	1	1	12	8
	Employees 1,000	.5	(D)	(Z)	(Z)	-	(Z)	(D)	-	(D)	(D)	(D)	6	(D)
	Value added in mining ..... mil dol	5.2	(D)	(D)	.7	-	(D)	(D)	-	(D)	(D)	(D)	6	(D)
104	GOLD AND SILVER ORES													1
	Establishments ..... number	1	-	-	-	-	-	-	-	-	-	-	-	(D)
	Employees 1,000	(D)	-	-	-	-	-	-	-	-	-	-	-	(D)
	Value added in mining ..... mil dol	(D)	-	-	-	-	-	-	-	-	-	-	-	
108	METAL MINING SERVICES													
	Establishments ..... number	8	8	-	-	-	-	-	-	-	-	-	8	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-		-
109	MISCELLANEOUS METAL ORES													
	Establishments ..... number	22	15	8	7	-	1	2	-	1	1	1	4	7
	Employees 1,000	.5	(D)	(Z)	(Z)	-	(Z)	(D)	-	(D)	(D)	(D)	(D)	(D)
	Value added in mining ..... mil dol	4.8	(D)	(D)	.7	-	(D)	(D)	-	(D)	(D)	(D)	(D)	(D)
12	**COAL MINING**													
	Establishments ..... number	48	44	6	-	6	-	26	1	23	2	-	12	4
	Employees 1,000	4.8	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-	3	(D)
	Value added in mining ..... mil dol	1 258.7	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-	(D)	(D)
122	BITUMINOUS COAL AND LIGNITE MINING													
	Establishments ..... number	42	38	6	-	6	-	26	1	23	2	-	6	4
	Employees 1,000	(D)	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-	(D)	(D)
	Value added in mining ..... mil dol	(D)	(D)	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-	-	
124	COAL MINING SERVICES													
	Establishments ..... number	6	6	-	-	-	-	-	-	-	-	-	6	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-		-
13	**OIL AND GAS EXTRACTION**													
	Establishments ..... number	656	648	169	-	-	169	-	-	-	-	32	447	8
	Employees 1,000	8.2	8.2	3.0	-	-	3.0	-	-	-	-	.5	4.7	(Z)
	Value added in mining ..... mil dol	2 646.7	2 647.8	2 318.7	-	-	2 318.7	-	-	-	-	118.3	210.8	-1.1
131	CRUDE PETROLEUM AND NATURAL GAS													
	Establishments ..... number	180	173	169	-	-	169	-	-	-	-	-	4	(X)
	Employees 1,000	3.0	3.0	3.0	-	-	3.0	-	-	-	-	-	-	-1
	Value added in mining ..... mil dol	2 317.7	2 318.7	2 318.7	-	-	2 318.7	-	-	-	-	-	-	
132	NATURAL GAS LIQUIDS													
	Establishments ..... number	34	33	-	-	-	-	-	-	-	-	32	1	(X)
	Employees 1,000	.5	.5	-	-	-	-	-	-	-	-	.5	-	(X)
	Value added in mining ..... mil dol	118.3	118.3	-	-	-	-	-	-	-	-	118.3	-	(X)

See footnotes at end of table.

Table 3. Selected Statistics by Type of Operation and Industry Group for the State: 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and item	All types of establishments	Producing establishments										Nonproducing establishments
				Mines only				Mines with preparation plants					
			Total	Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods	Separately operated preparation plants	Undistributed[1]	
13	**OIL AND GAS EXTRACTION**—Con.													
138	OIL AND GAS FIELD SERVICES													
	Establishments ..... number	442	442	-	-	-	-	-	-	-	-	-	442	-
	Employees 1,000	4.7	4.7	-	-	-	-	-	-	-	-	-	4.7	-
	Value added in mining ..... mil dol	210.8	210.8	-	-	-	-	-	-	-	-	-	210.8	-
14	**NONMETALLIC MINERALS, EXCEPT FUELS**													
	Establishments ..... number	39	39	1	-	1	-	27	4	22	1	1	10	-
	Employees 1,000	3.6	3.6	(D)	-	(D)	-	3.5	(D)	(D)	(D)	(D)	(D)	-
	Value added in mining ..... mil dol	451.3	451.3	(D)	-	(D)	-	445.9	(D)	(D)	(D)	(D)	(D)	-
142	CRUSHED AND BROKEN STONE, INCLUDING RIPRAP													
	Establishments ..... number	5	5	-	-	-	-	4	-	4	-	1	-	-
	Employees 1,000	1	1	-	-	-	-	(D)	-	(D)	-	(D)	-	-
	Value added in mining ..... mil dol	9.3	9.3	-	-	-	-	(D)	-	(D)	-	(D)	-	-
144	SAND AND GRAVEL													
	Establishments ..... number	7	7	1	-	1	-	2	-	2	-	-	4	-
	Employees 1,000	1	1	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	-
	Value added in mining ..... mil dol	4.9	4.9	(D)	-	(D)	-	(D)	-	(D)	-	-	(D)	-
145	CLAY, CERAMIC, AND REFRACTORY MINERALS													
	Establishments ..... number	12	12	-	-	-	-	12	-	12	-	-	-	-
	Employees 1,000	4	4	-	-	-	-	4	-	4	-	-	-	-
	Value added in mining ..... mil dol	37.1	37.1	-	-	-	-	37.1	-	37.1	-	-	-	-
147	CHEMICAL AND FERTILIZER MINERAL MINING													
	Establishments ..... number	6	6	-	-	-	-	6	4	1	1	-	-	-
	Employees 1,000	3.0	3.0	-	-	-	-	3.0	(D)	(D)	(D)	-	-	-
	Value added in mining ..... mil dol	397.8	397.8	-	-	-	-	397.8	(D)	(D)	(D)	-	-	-
148	NONMETALLIC MINERALS SERVICES, EXCEPT FUELS													
	Establishments ..... number	6	6	-	-	-	-	-	-	-	-	-	6	-
	Employees 1,000	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	-	-	-	-	-	(D)	-
149	MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ..... number	3	3	-	-	-	-	3	-	3	-	-	-	-
	Employees 1,000	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-
	Value added in mining ..... mil dol	(D)	(D)	-	-	-	-	(D)	-	(D)	-	-	-	-

[1]Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item		1987
Establishments during year	number	774
With 0 to 19 employees	do.	632
With 20 to 99 employees	do.	110
With 100 employees or more	do.	32
All employees:		
Average for year	1,000	17.1
Payroll for year	mil dol.	579.9
Production, development, and exploration workers:		
Average for year	1,000	12.7
March	do.	12.3
May	do.	12.4
August	do.	12.8
November	do.	13.1
Hours	millions	26.7
January to March	do.	6.4
April to June	do.	6.5
July to September	do.	6.8
October to December	do.	7.0
Wages	mil dol.	413.5
Supplemental labor costs not included in payroll	do.	139.1
Legally required expenditures, including Social Security contributions	do.	54.4
Payments for voluntary programs	do.	84.6
Value added by mining	do.	4 362.0
Inventories, beginning of 1987	do.	279.7
Inventories, end of 1987	do.	301.4
Cost of supplies	mil dol.	2 060
Supplies used, minerals received, and purchased machinery installed	do.	1 405
Resales	do.	13
Purchased fuels consumed	do.	126
Purchased electric energy:		
Quantity	mil kWh	4 402
Cost	mil dol.	172
Electric energy generated less sold	mil kWh	810
Contract work	mil dol.	341
Cost of purchased communication services	do.	5
Value of shipments and receipts	do.	5 846.
Value of resales	do.	15
Capital expenditures during year (except land and mineral rights)	do.	575.
New capital expenditures during year	do.	297
Buildings and other structures, except land	do.	24
Machinery and equipment	do.	272
Used capital expenditures during year	do.	41
Buildings and other structures, except land	do.	2
Machinery and equipment	do.	39
Mineral exploration and development[1]	do.	236
Rental payments during year	do.	40
Buildings and other structures, except land	do.	5
Machinery and equipment	do.	35
Expensed mineral exploration, development, land, and rights[1,2]	do.	278

[1]Excludes data for mining services industries and natural gas liquids industries where data were not collected.
[2]Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1987

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning o abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year: Total (number)	Establishments during year: With 20 employees or more (number)	All employees: Number[2] (1,000)	All employees: Payroll (million dollars)	Production, development, and exploration workers: Number (1,000)	Production, development, and exploration workers: Hours (millions)	Production, development, and exploration workers: Wages (million dollars)	Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Wyoming	-	**774**	**142**	**17.1**	**579.9**	**12.7**	**26.7**	**413.5**	**4 362.0**	**2 060.4**	**5 846.5**	**575.**
	Big Horn County	-	**5**	**3**	**.1**	**2.7**	**.1**	**.2**	**2.1**	**10.7**	**6.3**	**15.3**	**1.**
14	**Nonmetallic minerals, except fuels**	-	**4**	**3**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
145	Clay, ceramic, and refractory minerals	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D
	Campbell County	-	**29**	**18**	**2.9**	**121.1**	**2.9**	**4.1**	**83.0**	**858.3**	**197.5**	**995.4**	**80**
12	**Coal mining**	-	**23**	**18**	**FF**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
122	Bituminous coal and lignite mining	-	23	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D
	Carbon County	-	**11**	**4**	**.4**	**12.9**	**.3**	**.6**	**8.6**	**48.5**	**169.1**	**215.9**	**1**
10	**Metal mining**	-	**2**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
109	Miscellaneous metal ores	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D
12	**Coal mining**	-	**6**	**3**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
122	Bituminous coal and lignite mining	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D
	Converse County	E4	**8**	**4**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
12	**Coal mining**	E7	**2**	**2**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
122	Bituminous coal and lignite mining	E7	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D
	Crook County	-	**5**	**4**	**.3**	**3.5**	**.1**	**.3**	**2.7**	**16.8**	**(D)**	**21.9**	**(D**
14	**Nonmetallic minerals, except fuels**	-	**4**	**4**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
145	Clay, ceramic, and refractory minerals	-	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D
	Fremont County	-	**12**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
10	**Metal mining**	-	**9**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D**
109	Miscellaneous metal ores	-	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D
	Lincoln County	-	**4**	**2**	**.5**	**17.0**	**.4**	**.6**	**12.9**	**97.1**	**41.8**	**132.0**	
12	**Coal mining**	-	**2**	**2**	**BB**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	
122	Bituminous coal and lignite mining	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
	Natrona County	-	**13**	**2**	**.3**	**7.9**	**.2**	**.3**	**6.1**	**3.9**	**62.0**	**65.1**	
10	**Metal mining**	E1	**6**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	
109	Miscellaneous metal ores	E1	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
	Sheridan County	-	**4**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
12	**Coal mining**	-	**4**	**1**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
122	Bituminous coal and lignite mining	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1987—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E[1]	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number[2] (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Wyoming—Con.												
	Sweetwater County	-	**14**	**8**	**3.9**	**157.0**	**3.1**	**6.5**	**118.8**	**823.7**	**270.7**	**856.2**	**38.3**
12	**Coal mining**	-	**3**	**2**	**CC**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
122	Bituminous coal and lignite mining	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	**Nonmetallic minerals, except fuels**	-	**6**	**5**	**3.0**	**118.5**	**2.4**	**5.0**	**91.7**	**398.2**	**(D)**	**548.2**	**(D)**
147	Chemical and fertilizer mineral mining	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Uinta County	-	**8**	**3**	**.2**	**6.2**	**.2**	**.4**	**5.8**	**39.6**	**(D)**	**334.5**	**(D)**
13	**Oil and gas extraction**	-	**7**	**3**	**AA**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**
132	Natural gas liquids	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

[1]Payroll and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

[2]Some statistics for counties or industry groups are withheld to avoid disclosing data for individual companies. However, for such counties and industry groups with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—100 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Wyoming	**774**	**31**	**48**	**658**	**39**
0 to 4 employees	404	17	11	363	13
5 to 9 employees	140	6	3	124	5
10 to 19 employees	88	3	4	78	3
20 to 49 employees	75	-	8	58	9
50 to 99 employees	35	1	8	22	4
100 to 249 employees	17	2	6	9	-
250 to 499 employees	11	-	8	1	2
500 to 999 employees	3	-	-	1	2
1,000 to 2,499 employees	1	-	-	-	1
Albany	**1**	**1**	**-**	**-**	**-**
0 to 19 employees	1	1	-	-	-
Big Horn	**5**	**-**	**1**	**-**	**4**
0 to 19 employees	2	-	1	-	1
20 to 99 employees	3	-	-	-	3
Campbell	**29**	**-**	**23**	**6**	**-**
0 to 19 employees	11	-	5	6	-
20 to 99 employees	9	-	9	-	-
100 to 249 employees	5	-	5	-	-
250 employees or more	4	-	4	-	-
Carbon	**11**	**2**	**8**	**2**	**1**
0 to 19 employees	7	1	3	2	1
20 to 99 employees	2	-	2	-	-
100 to 249 employees	2	1	1	-	-
Converse	**8**	**2**	**2**	**3**	**1**
0 to 19 employees	4	2	-	2	-
20 to 99 employees	3	-	1	1	1
250 employees or more	1	-	1	-	-
Crook	**5**	**1**	**-**	**-**	**4**
0 to 19 employees	1	1	-	-	-
20 to 99 employees	4	-	-	-	4
Fremont	**12**	**9**	**-**	**3**	**-**
0 to 19 employees	11	9	-	3	-
20 to 99 employees	1	1	-	-	-
Hot Springs	**1**	**-**	**1**	**-**	**-**
0 to 19 employees	1	-	1	-	-
Johnson	**1**	**1**	**-**	**-**	**-**
0 to 19 employees	1	1	-	-	-
Laramie	**4**	**-**	**-**	**-**	**4**
0 to 19 employees	3	-	-	-	3
20 to 99 employees	1	-	-	-	1
Lincoln	**4**	**-**	**2**	**1**	**1**
0 to 19 employees	2	-	-	1	1
20 to 99 employees	1	-	1	-	-
250 employees or more	1	-	1	-	-
Natrona	**13**	**6**	**-**	**3**	**4**
0 to 19 employees	11	5	-	3	3
20 to 99 employees	1	-	-	-	1
100 to 249 employees	1	1	-	-	-
Niobrara	**1**	**-**	**-**	**1**	**-**
0 to 19 employees	1	-	-	1	-
Park	**3**	**-**	**-**	**2**	**1**
0 to 19 employees	2	-	-	1	1
20 to 99 employees	1	-	-	1	-
Platte	**2**	**-**	**-**	**-**	**2**
20 to 99 employees	2	-	-	-	2
Sheridan	**4**	**-**	**4**	**-**	**-**
0 to 19 employees	3	-	3	-	-
20 to 99 employees	1	-	1	-	-
Sweetwater	**14**	**1**	**3**	**4**	**6**
0 to 19 employees	6	1	1	3	1
20 to 99 employees	1	-	-	1	-
250 employees or more	7	-	2	-	5
Uinta	**8**	**-**	**-**	**7**	**1**
0 to 19 employees	5	-	-	4	1
20 to 99 employees	3	-	-	3	-
Washakie	**3**	**-**	**-**	**1**	**2**
0 to 19 employees	3	-	-	1	2

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1987—Con.

[Data for the crude prtroleum and natural gas and mining services industries were not collected by county in 1987 and are not included with the data shown by county. For meaning of abbreviation and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Wyoming—Con.					
Weston	3	-	-	1	2
0 to 19 employees	2	-	-	1	1
20 to 99 employees	1	-	-	-	1

Geographic area and employment-size class[1]	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Nonmetallic minerals mining (SIC 14)
Wyoming—Con.					
Undistributed	64	5	6	522	6
0 to 19 employees	555	5	4	537	6
20 to 99 employees	76	-	2	74	-
100 to 249 employees	9	-	-	9	-
250 employees or more	2	-	-	2	-

[1]Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

APPENDIX A.
Explanation of Terms

Employment and related items—The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boarding houses, bunk houses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers—This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), record keeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees—This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees—This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year—The 1987 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll—This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1987. Respondents were told that in reporting they could follow the definition of payroll used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group

insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to the proprietor or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production and development work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours—This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners are excluded.

Supplemental labor costs—This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions—This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs—Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining—This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed, purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.—Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1987 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts— The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges. Shipments includes all products physically shipped from the establishment during 1987, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1987. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the

estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products.

Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures—This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1987 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures includes work done on contract, as well as by the mine forces. Expenditures for machinery and equipment includes those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments—This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

For 1987, a clarification was made to the instructions for rental payments to indicate that the equipment should be reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor should be reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease", the original cost or market value of the equipment or building was to be reported as a value of fixed assets and not as rental payments.

Current account expenditures—This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories—This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning in the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method. The inventory figures for 1987 and 1982, therefore, will not be comparable to prior census data because of the change in reporting instructions.

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APPENDIX B.
Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont
Atlantic Offshore

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia

SOUTH ATLANTIC STATES—Con.

Maryland
North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Northern Gulf of Mexico Offshore

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

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1987 CENSUS OF MINERAL INDUSTRIES

Publications of the 1987 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

Preliminary Reports

Industry series—12 reports (MIC87-I-10A(P) to -14E(P))

Preliminary data from the 1987 census are issued in 12 separate reports covering 21 mineral industries. Preliminary summary data for the U.S. and States are released in one report.

Final Reports

Industry series—12 reports (MIC87-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 21 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased; and the quantities of fuels produced and consumed; capital expenditures; assets; rents; depreciation, amortization and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development and exploration costs; number of establishments; and number of employees. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC87-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States for two- and three-digit industry groups by type of operation and by county. Also, data are shown for value of shipments, value added by mining, employment, payroll, hours worked, capital expenditures, cost of supplies, etc., purchased machinery installed, and number of mining establishments, with comparative 1982 data on employment and value added by mining.

Subject series—2 reports (MIC87-S-1 to -2)

One of these reports is a general National-level summary. The other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC87-R-1)

The Numerical List of Manufactured and Mineral Products includes a description of the principal products and services published in the 1987 Censuses of Manufactures and Mineral Industries.

MICROFICHE

Each final published report in the 1987 Census of Mineral Industries will be available on microfiche.

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Data from the mineral industry series and geographic area series for establishments in publication-related tapes and compact discs read only memory (CD-ROM). These tapes and discs are the information source of the new Census Customized data products are available for users who want to summarize data in ways or process large amounts of data. These products are accompanied by technical documentation and sold by Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, manufactures, transportation, enterprise statistics, minority-owned businesses, and women-owned businesses and are available from the 1987 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, virgin islands of the United States, Guam, and the Northern Mariana islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.